Summary:

Dr. Wahab Almuhtadi, P.Eng., SMIEE, EIC Fellow is a professor and coordinator of the Algonquin College – Carleton University Joint Degree Program "Bachelor of Information Technology - Optical Systems and Sensors - BIT OSS (formerly Photonics and Laser Technology - PLT" in the School of Advanced Technology, at Algonquin College. Dr. Almuhtadi had taught several courses at different levels in the Photonics Engineering Programs (Bachelor in Applied Technology and Diploma Technology, 2002-2012), under the photonics engineering program. For many technology programs at the colleges, he has been a pioneer in design and development innovative and effective curricula based on and parallel with the industry market need. He was instrumental in developing the curriculum and key in developing the many courses for the photonics technology program and bachelor programs. He played an important role in negotiation with Carleton University for establishing the joint Algonquin Carleton Bachelor Photonics Program venture. Dr. Almuhtadi is also the R&D Coordinator at the Algonquin College Faculty of Technology and Trades. He served also as a Member of the 2017-2022 Algonquin College Strategic Plan Advisory Team.



Dr. Almuhtadi proves remarkable leadership with his strong background in high technology and engineering industry as an innovative educator and researcher, helping the College to become a Polytechnic institution.

His transformational and charismatic leadership in innovative education, experiential learning and research emphasizes compelling vision, conveying excellent performance expectations, demonstrating appropriate roles, projecting self-confidence and ability to achieve goals, and objectives. This resulted in a lasting impact and significant positive effects on student learning success and engagement with industry in conducting research projects.

Dr. Almuhtadi's demonstrated extraordinary achievements have been an instrumental in transforming significantly Algonquin College's education, research, and standing with its students, government, industry and other academic institutions. And thus, Algonquin's contribution to these stakeholders has been enriching by: providing solutions and stimulating further research and student experiential learning for improving technology performance, capability and affordability within the academia and industry realm for the benefit of the society in many ways.

With the great interest generated by Dr. Almuhtadi's unique endeavour, he is the founder of the applied research pillar at Algonquin College that led to the creation of the Applied Research and Innovations Office to handle many industry requests for collaborative research, and to increase the desire for continued research and the student's enthusiasm for more experiential learning that produced real results. As the R&D Coordinator at the Algonquin College, Faculty of Technology and Trades, Dr. Almuhtadi continues to strengthen education leadership to enhance student experiential learning, improve student achievement, plus establish and expand student and faculty participation in numerous applied research projects. He provided academic leadership in applied research and managed 36 active and 54 proposed projects with a totaling \$10.5M funded by various agencies such as: NSERC, OCE, IC, CIDA, NCIT, ORDCF, PRECARN. These research projects were distributed among faculty and students of various departments within the Faculty of Technology and Trades. He has and continues to establish very good relations with the industry, provincial and federal funding agencies, academia and engineering and technology organizations.

As a senior researcher at the College, his research projects include, for example: QoS Optimization using Adaptive Intelligence Techniques in Satellite Systems (\$2.8 M); User-centric Networks: Building New User Experiences on Software Defined Networks (\$0.375M); Bridging Broadband Gap: Novel Solutions for Expanding Cellular Coverage to Remote Communities (\$0.375M); Remote Objective Monitoring of Bio-Signals (ROMOBS) (\$0.4 M); Remote/Rural WiFi Networks (\$100k); Traffic Engineering in WiMAX Mobile Networks (\$300k); Traffic Engineering in WiMAX Fixed Networks (\$311k); Mesh Network Multipathing/Communications Handset-Relaying Prototype (\$300k); CT Wireless for Commercial Building Electrical Panels (\$100k); IEEE Humanitarian Wireless WiFi Project for Latin America (\$25K) and among others. Dr. Almuhtadi is an author of several technical papers and co-author of books. He supervises final year students helping them carry out their research projects with the involvement of local industry. The successful completion of the WiFi project, as an example, for rural and remote communities project and resulting further interest by Canada North, NGO's and adapted by Asia Pacific Economic Corporation-APEC Telecommunications and Information Working Group is definitely a success. However, it is the link to technology helping humanity that has pioneered transforming educational research towards a community purpose. He played an important role in the Faculty Development and Upgrading Project for Yemen supported by the Canadian College Partnership Program. Through it, Algonquin College and Confederation College have offered help to the Ministry of Vocational and Training and the Vocational, Industrial Institute in Taiz, Yemen.

Dr. Almuhtadi, upon joining Algonquin College after many years in Nortel's R&D Optical Networks, identified the need for a stateof-the-art lab to link the academic and practical aspects of education. He is the founder and designer of a complete leading-edge <u>Optophotonics Lab</u>, with SONET/SDH (Nortel/Algonquin College \$2.5M project) and recently with Optical Transport Network-OTN 10-100 Gb/s (Ciena 6500 Optical Packet Platform \$1M project). This lab became fundamental to establishing his new photonics program and a coveted national center for high-tech small and medium enterprises-SMEs to test and validate optoelectronics/digital solutions. This lab not only supported his leading curriculum but also increased industry and government partnerships, graduated highly qualified professionals to support the latest ICT developments and to support user-to-user communications between unlimited numbers of emerging technologies and elevated Algonquin College to a polytechnic institution status. Since its conception in 2003, his lab and program continues to remain as the only state-of-the-art lab in any Canadian institution. With connectivity to the national CANARIE network, and trans-Atlantic Global Lambda Integrated Facility-GAIF network, the lab remains as a unique centre for research with global industry and academia. With multimedia streaming, the lab enables teaching and research on improving Quality of Service-QoS of optoelectronics-digital systems including Optical HDMI, VoIP, VoLTE, and IPTV.

Dr. Almuhtadi is one of the founders of the new "Centre of Excellence in Next Generation Networks-CENGN," with \$65M funding from Networks of Centres of Excellence Canada, Alcatel-Lucent, TELUS, Cisco, Juniper, EXFO, JDSU, Rogers, and Allstream. The connection of his lab to CENGN is to support education and conduct research in Internet-of-Things (IoT). A vast variety of smart devices and networks enabling emerging consumer electronics technologies such as autonomous transportation, e-health, smart appliances, smart grid and smart cities solutions can be developed and tested in the lab for IoT readiness, AI, Blockchain, and 5G. He also supported and help in getting Ontario Government funding for ENCQOR 5G (Evolution of Networked Services through a Corridor in Québec and Ontario for Research and Innovation).

Dr. Almuhtadi earned his M.Sc. and Ph.D. in Electrical Engineering from Brno University of Technology, Czech Republic in 1986 and 1990 respectively. He is a Certified Professional Electrical Engineer of Ontario, and a Fellow of The Engineering Institute of Canada (EIC). Dr. Almuhtadi has over 25 years of university and college teaching experience at both the undergraduate and graduate levels. He also has over 31 years of experience in telecommunication and electrical engineering industries including R&D. Prior to Algonquin College, Dr. Almuhtadi worked with Nortel as a Team Leader and Senior Verification and System Engineer in Optical Networks Verification, R&D Metro Optical Solutions. Prior to that, he worked as Director of Operations and Quality Assurance Department with Canspect Corporation Canada. Also, he was a consultant with J.L. Richards & Associates Canada. With the Ministry of Electricity and Water in Yemen, Dr. Almuhtadi was the Advisor to the Minister on Technical Affairs and held several positions, such as: Director of Research and Development Department; Deputy Director of Planning, Statistics and Control Department.

Dr. Almuhtadi was also: an Adjunct Professor in the Electronics Department at Carleton University, Canada; part time professor with the University of Sana'a, Electrical Engineering Dept., in Sana'a, Yemen; Assistant Professor in the Czech Republic, in the Faculty of Electrical Engineering Brno University of Technology. He also worked as a researcher with the Research Institute for Electric Power Engineering (EGU), Brno.

Dr. Almuhtadi is not just a Senior Member of the Institute of Electrical and Electronics Engineers Inc. (IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity, more than 426,000 members/160 countries), he is actively involved in IEEE and continues to hold many executive posts. Currently, he is the President of IEEE Consumer Technology Society (formerly IEEE Consumer Technology Society) and the Chair of its Board of Governors (2019-2222). He served as the Vice President of Education of IEEE Consumer Technology Society (2017-2018); Director of IEEE Communications Society North American Board (2019-220); Chair of the IEEE Canada Publications & Communications Group (2017-2019); Distinguished Lecture Chair and Member of the Board of Governors of IEEE Consumer Technology Society (2014-2018); He still serves as Director, IEEE Canadian Foundation (2011-present), Chair of Ottawa IEEE Communications Society/Consumer Technology Society/Broadcasting Technology Society Joint Chapter (2008-present); Vice-Chair of the Ottawa Section Senate (2009present); Chair of the Ottawa Section Award Committee (2005-present); and Executive Advisor and Mentor of the IEEE Algonquin College Student Branch (2003-present). He served as: IEEE Canada Conference Advisory Committee Chair (2013-2016); IEEE Canada-Eastern Area Chair (NB, NL, NS, ON, PE, QC) (2010-2013); IEEE Ottawa Section Chair (2007-2008); Chair of Ottawa IEEE Power Engineering Society Chapter (1996-2018); IEEE Ottawa Engineers in Transition Committee Chair (2002); IEEE Ottawa Senior Membership Committee Chair (2009-2011); Member of IEEE MGA Center for Leadership Excellence Committee (2013-2014); and Member at Large of IEEE MGA Information Management Committee (2015). Dr. Almuhtadi has organized and chaired many national and international engineering conferences, symposia, and workshops (e.g. IEEE ICC 2012 Conference). He is the Executive Conference Chair of IEEE ICC 2021 Montreal.

He received several recognition awards from IEEE, academia and industry e.g. IEEE Leadership Award 2010, Algonquin College Laurent Isabelle Award 2009 for Teaching Excellence, and NISOD 2006 Award). Dr. Almuhtadi has been recognized by the Engineering Institute of Canada (EIC) as the recipients of the 2015 Canadian Pacific Railway Medal. This medal was established in 1987 to honour the achievements in engineering and in the development of Canada. The CPR Medal is awarded in recognition of many years of leadership and service at the regional, branch and section levels by members of the Societies within the Institute. This medal is one of the highest engineering awards in Canada.

Detailed CV:

NAME:

Dr. Wahab Almuhtadi, P. Eng., SMIEEE, EIC Fellow Professor and Coordinator, Bachelor of Information Technology -Optical Systems and Sensors -BIT OSS (formerly Photonics and Laser Technology - PLT" Faculty of Technology and Trades R&D Coordinator Algonquin College 1385 Woodroffe Avenue, Room T-204a, T-Building Ottawa, Ontario, Canada K2G 1V8 Emails: <u>almuhtadi@ieee.org</u> <u>almuhtw@algonquincollege.com</u> Wahab.Almuhtadi@algonquincollege.com

Telephone: (613) 727-4723, Ext. 3403 Mobile: (613) 316-3120 Fax: (613) 727-7663

PROFILE:

- Established departmental strategic direction aligned with the College's strategic plan and Faculty goals.
- Developed the strategic vision for the photonics program curriculum and how to keep it relevant for the past 13 years.
- Fostered relationship with industry, academia and institutions
- Influenced successive industry C-level executives (Nortel, Ciena, TELUS, Juniper, EXFO) to financially support the first Algonquin College state-of-the-art Optophotonics lab that I designed and sustain the support to keep it relevant since 2005.
- Introduced open source technology development with the WiFi for rural and remote areas as part of a humanitarian initiative. This received support and adapted by Canada North, NGO's and adapted by Asia Pacific Economic Corporation-APEC Telecommunications and Information Working Group
- Strengthened collaboration with industry to introduce innovative research opportunities like expanded use of WiMAX/WiFi for Smart Cities (with EION).
- Negotiated the joint Carleton-Algonquin collaboration in photonics program.
- Involved at the technical committee or board level in the Communications, Consumer Technologies, Broadcast Technologies, plus the Power and Energy Societies of IEEE.
- Founder and member of Centre of Excellence in Next Generation Networks (CENGN)/ Centre d'excellence pour les Reseaux de Prochaine Generation (CERPG)", Ottawa, Ontario, Canada.
- Selected by NCE, Canada to be a reviewer for Smart Grid project (NCE-Networks of Centres of Excellence are unique partnerships among universities, industry, government and non-governmental organizations).
- Developed the Algonquin College Curriculum adaptable to future market needs.
- Developed joint program with Carleton University.
- Managed personnel in a unionized environment.
- Worked with others as part of a team, as opposed to working reclusively or antagonistically.
- Applied strategic thinking with strong interpersonal relationships and communication skills.
- Adapted, learned and expanded technical and professional knowledge.
- Knowledge of the academic and administrative policies and programs (apprenticeship, full-time).
- Experience in curriculum development, course material design, along with strong record of applied research, publication, supervision of undergraduate and graduate students, and substantive fruitful interaction with funding agencies.
- Worked closely and communicated effectively with students, faculty and staff at all levels with the goal of student success.
- Set priorities, meet deadlines and perform well within budget and time constraints.
- Succeeded with delivery of teaching excellence, quality education, understanding and commitment to student success,
- Self-starter with initiative, thoroughness, tact, perceptiveness, flexibility and good judgement.
- Experienced in student recruitment and job placement for graduates and undergraduates.
- More than 22 years of teaching experience at the undergraduate and graduate level, and 28 years of engineering experience in the telecommunications and electrical engineering industries.
- Strong publication record, supervision of graduate students, and substantive interaction with funding agencies.
- Proven research and development aptitude and solid regulatory engineering and academic expertise in telecommunications (optical and wireless networks) and electrical power (distribution, transmission and generation).
- Engineering experience in system design, development, implementation, and deployment (including hardware and software system integration).
- Managed and led a diverse group, and influencing positive results for department and Faculty success.
- Experience in building positive relationships with industry, government, academia and business representatives.
- Earned Ph.D. and M.Sc. in Electrical Engineering
- Certified Professional Electrical Engineer.

EDUCATION:

- 1986 1990 Doctor of Philosophy (Ph.D.) in Electrical Engineering, Technical University of Brno (Brno University of Technology), Faculty of Electrical Engineering, Brno, Czech Rep.
- 1980 1986 Master of Science (M.Sc.) in Electrical Engineering, Technical University of Brno (Brno University of Technology), Faculty of Electrical Engineering, Brno, Czech Rep.
- 1979 1980 Architecture, American University of Beirut, Engineering Faculty, Beirut, Lebanon

EMPLOYMENT:

2003 - present Algonquin College, Ottawa, Ontario, Canada

2011- present

Professor and Coordinator, "Bachelor of Information Technology - Optical Systems and Sensors -BIT OSS (formerly Photonics and Laser Technology – PLT) Algonquin College – Carleton University Joint Degree Program, Applied Science and Environmental Studies Department, School of Advanced Technology, Faculty of Technology and Trades, Algonquin College, Ottawa, Ontario, Canada

- Coordinating the BIT-PLT program.
- Teaching courses: "Fiber optical Communications I and 11", "Optics/Optical Fibers I (Principles)", "Trends in Photonics", and "Fundamentals of Light Sources"
- Taught courses: "General Physics" for Computer Science students (4 year program) and "Electrical Engineering Design" for Electrical Engineering Technology students (3 year program).
- Designed and built the second phase of the Leading-Edge Opto-photonics Lab, with next generation of Optical Transport Networks that consists of 2x Ciena 6500 PACKET-OPTICAL PLATFORM BB/PL AND CPL with line rate of 10-40-100.4 Gb/s and to be integrated with the first phase of the Opto-photonic Lab/SONET/SDH optical networks. The lab utilization: 1) used for teaching and carry out lab experiments and for training the students with hand-on experience; 2) connected to ORION, CANARIE networks for conducting research activities with industry, academia and research institutes; 3) connectivity to many consumer electronics devices for multimedia streaming, VoIP and IPTV.
- Designed and developed the BIT-PLT curriculum where it has been submitted and approved by the Board of Governors and Carleton University Senate
- He was instrumental in developing many courses for the photonics bachelor program.
- Played an important role since 2007 in negotiation with Carleton University for establishing the joint Algonquin Carleton Bachelor Photonics Program venture.
- Conducting research projects such as
 - Mesh Network Multipathing; Communications Handset-Relaying Prototype (Algonquin College, TELUS Inc., Natural Sciences and Engineering Research Council of Canada-NSERC)
 - CT Wireless RF for Commercial Building Electrical Panels (Algonquin College, TRIACTA, NSERC)
 - Traffic Engineering in WiMAX Mobile Networks (Algonquin College, EION Inc., NSERC)
 - Traffic Engineering in WiMAX Fixed Networks (Algonquin College, Carleton University, EION Inc., Ontario Centres of Excellence-OCE)
 - IEEE Humanitarian Wireless WiFi Project for Latin America, (Testbed, path/link between University of Ottawa and Algonquin College
 - Automotive Solar Powered Evaporative Cooler (Algonquin College, OCE)

2008 - present

R&D Coordinator, Faculty of Technology and Trades, Algonquin College Ottawa, Ontario, Canada

- Responsible for research activity within the Faculty
- Coordinating between Applied Research and Innovation Department, the Dean and the Dean's Management Committee
- Providing regular updates to the Dean of Faculty regarding research activities and funding
- Providing reports to the Dean's Management Committee on research activities, initiatives, funding competitions
- Co-ordinating with faculty members to be engaged in research and innovation and create team(s) of faculty and students to conduct research projects from concept, development, and implantation to commercialization.
- Building partnership with industry and academia for collaborative research projects.
- Provide assistance in writing applications for large grants that encompass many projects or for infrastructure
- Providing leadership and guidance to teams in novel situations or where unusual issues occur, and to be able to select, evaluate and adapt new techniques to fit new circumstances.
- Developing innovative methods to improve existing research planning and strategy

2015 - 2016

2017-2022 Strategic Plan Advisory Team, Member, Algonquin College, Ottawa, Ontario, Canada

2009 - present

Research Ethics Board Member, Applied Research and Innovation, Algonquin College, Ottawa, Ontario, Canada

- Review applications for research projects (research involving human participants or the use of animals for research) and issue ethics approval for conducting research that are meeting ethical standards
- Set guidelines in issues relating to the ethics approval of research involving human participants and the use of animals for research.
- Attend the Research Ethics Board meetings

2003 - 2011

Professor, Electronics and Electro-Mechanical Studies Department, School of Advanced Technology, Faculty of Technology and Trades, Algonquin College, Ottawa, Ontario, Canada

- Taught courses: "Fiber optical Communications", "Telecommunications for Technology", "Telecommunications", "Kinematics and Dynamics", and "Optics and Waves" within the PET-Photonics Engineering Technology Program (3 year program) and BAT-Bachelor in Applied Technology Photonics (4 year program).
- Taught courses: "General Physics" for Computer Science students (4 year program) and "Electrical Engineering Design" for Electrical Engineering Technology students (3 year program).
- Designed and built the first phase of the Leading-Edge Opto-photonics Lab, with SONET/SDH Optical Networks consist of 2x Nortel Metro Optical Carriers with line rate of 155 Mb/s and 3x Nortel Long Haul Optical Carriers with line rate 2.5 Gb/s). The lab utilization: 1) used for teaching and carry out lab experiments and for training the students with hand-on experience; 2) connected to NCIT, ORAN, and ORION networks for conducting research activities with industry, academia.
- Designed and developed educational curriculum for several courses.
- Supervised students coordinated the photonics research projects of the final years of photonics programs.
- Conducted research projects such as
 - QoS Optimization using Adaptive Intelligence Techniques in Satellite Systems (Algonquin College, Carleton University, University of Waterloo, EION Inc., TELESAT, OCE/CITO, PRECARN).
 - o Remote/Rural WiFi Networks (Algonquin College, CIDA, Industry Canada, NCIT).
 - ∘ Hybrid Power Node™ Development (Algonquin College, CPN, Seewind, OCE/CITO).
 - Designed the project proposal of Real-Time Virtual Post-Secondary Learning to connect Ottawa-Orleans high schools with Algonquin College through the Ottawa Optical Advanced Research Network (ORAN).
 - Algonquin WiFi Project for a Canadian company working in Central Asia.
 - He has played a leading role in research at Algonquin College, in projects funded by IC, CIDA, NCIT, ORDCF, and related conference presentations.
- Reviewed and Evaluated the Photonics Program at Niagara College.
- Has an important role in the Faculty Development and Upgrading Project for Yemen. This project is supported by the Canadian College Partnership Program/Partnership Program and provided by Algonquin College and Confederation to the Ministry of Vocational and Training, specifically to the Vocational, Industrial Institute in Taiz, Yemen.

2013 - present

A Centre of Excellence in Next Generation Networks (CENGN)/ Centre d'excellence pour les Reseaux de Prochaine Generation (CERPG)", Ottawa, Ontario, Canada

Algonquin College Representative, Founder, Member of CENGN Technical Committee, Member of CENGN Commercialization Committee

- Representing Algonquin College in an Industry-Academia team that worked together and submitted a proposal application in August, 2013 to the NCE/Industry Canada for 2015 Centres of Excellence for Commercialization and Research (CECR) program competition. The project proposal is to establish "Centre of Excellence in Next Generation Networks (CENGN)". The first phase for conducting research will for a period January 2015 December 2020 with \$65M funding from Networks of Centres of Excellence Canada, Alcatel-Lucent, TELUS, Cisco, Juniper, EXFO, JDSU, Rogers, and Allstream.
- Connecting the Ciena- Algonquin College Optophotonics Lab to CENGN testbed for supporting education and research in the development of Software Defined Networking (SDN), Network Functions Virtualization (NFV) Internet-of-Things (IoT), vast variety of devices and networks enabling emerging consumer electronics technologies such as smart devices, smart 4k/8k TV, autonomous transportation, real-time remote health care, and smart cities solutions.

1998 – 2002 Nortel Networks, Ottawa, Ontario, Canada

2001 - 2002

Sanity Prime and Senior Quality Engineer/Team Leader, Preside Site Manager, R&D Metro Optical Networks Solutions, Nortel Networks, Ottawa, Ont., Canada

	1999 – 2001 Senior Verification and System Engineer / Team Leader, Optical Networks Verification, R&D Metro Optical Solutions, Nortel Networks, Ottawa, Ontario, Canada
	1998 - 1999 Sanity Prime and Software Developer , Express-interWAN GUI, R&D Metro Optical Solutions, Nortel Networks, Ottawa, Ontario, Canada
1993 - 1998	Canspect Corporation, Ottawa, Ontario Director, Operations and Quality Assurance Department,
1996 - 1997	Power House, Ottawa, Ontario, Canada President
1996	J.L. Richards & Associates (Canrede Inc./Paragon Engineering ltd.), Ottawa/Kitchener, Ontario, Canada Consultant (Power House),
1996	Carleton University, Electronics Department, Ottawa, Ontario, Canada Adjunct Professor
1990 - 1993	Ministry of Electricity and Water, Sana'a, Yemen 1991 - 1993 Advisor to the Minister on Technical Affairs (Assistant Deputy Minister level), Ministry of Electricity and Water, Sana'a, Yemen
	1991 - 1993 Director, Research and Development Department, Public Electricity Corporation, Ministry of Electricity and Water, Sana'a, Yemen
	1990 – 1991 Deputy Director, Planning, Statistics and Control Department, Public Electricity Corporation, Ministry of Electricity and Water, Sana'a, Yemen
1990 - 1993	University of Sana'a, Engineering Faculty, Electrical Engineering Dept., Sana'a, Yemen Lecturer (Part-time Professor),
1990 - 1993	Dar Al Handasa Co., Engineering Contractors and Consultants, Sana'a, Yemen Electrical Engineer (Designer and Supervisor)
1986 - 1990	Technical University of Brno, Faculty of Electrical Engineering, Brno, Czech Republic Professor Assistant
1987 - 1990	Computing and Information Center, Technical University of Brno, Brno, Czech Republic Programmer
1985 - 1986	Research Institute for Electric Power Engineering (EGU), Brno, Czech Republic Researcher
1983 - 1984	South Moravia Power Utility (JME), Brno, Czech Republic Engineer Assistant
4/1982-5/1982	Zetor, Agriculture Tractors Factory, Brno, Czech Republic Assistant Electrical Technician (Coop), Electrical Division
1977	Ministry of Education, Ibb Education Department, Ibb, Yemen Teacher, Elementary School, Ibb, Yemen

HONOURS, AWARDS, MEDALS, AND CERTIFICATE:

- 2021 Recognition Award For Serving As The Executive Conference Chair Of IEEE International Conference On Communications 2021, Montreal, IEEE Communications Society.
- 2020 Outstanding Service Award For Serving As President Of IEEE Consumer Technology Society in 2019-2020, IEEE Consumer Technology Society.
- 2019 IEEE ComSoc Appreciation Award " for contribution made in furthering the objective of the Society and for serving as the Director of IEEE ComSoc North America Region 20218-2019"
- 2019 Exemplary Leadership Local Industry Ambassador Award "In recognition for his leadership in winning and bringing to Ottawa The 2020 IEEE Sections Congress ISC 2020"
- 2019 ComSoc CHAPTER-OF-THE-YEAR (2019 CoY), IEEE Communications Society.
- 2019 ComSoc Chapter Achievement Award (2019 CAA), IEEE Communications Society.
- 2016 ComSoc Chapter Achievement Award (2016 CAA), IEEE Communications Society.
- 2018 Montreal Ambassador Award "In recognition for his instrumental role in winning the international competition and bringing to Montreal a major event The 42nd IEEE International Conference on Communications ICC 2021".
- 2016 Ottawa Ambassador/Tourism Volunteer Award "In recognition of being a very active partner in bringing international conventions to Ottawa through the Institute of Electrical and Electronic Engineers".
- 2015 Canadian Pacific Railway Medal, Engineering Institute Of Canada (EIC). "In Recognition Of Many Years Of Leadership And Service At The Regional, Branch And Section Levels".
- 2013 W.S. Read Outstanding Service Award Prix D"Excellence De Service W.S. Read 2013 To WA "For Clear Vision, Leadership And Exemplary Service To The Region 7 And IEEE" – "Pour Sa Clairvoyance, Leadership, Et Service Examplaire A La Region 7 Et A L'ieee", IEEE Canada.
- 2012 Recognition Award For Serving As The Executive Conference Chair Of IEEE International Conference On Communications 2012, Ottawa, IEEE Communications Society.
- 2011 Appreciation Certificate For Participation In The Panel Discussion At The Banquet, And For Support To IEEE Montreal Section.
- 2010 Leadership Award For Distinguished Leadership And Outstanding Contribution As A Leader, At The Section And Regional Levels, Serving IEEE For The Benefit Of Its Members And The Engineering Profession, IEEE Member And Geographic Activities Board.
- 2010 ComSoc CHAPTER-OF-THE-YEAR (2010 CoY), IEEE Communications Society.
- 2010 ComSoc Chapter Achievement Award (2010 CAA), IEEE Communications Society.
- 2010 Certificate Of Recognition For Serving As The EPEC 2010 Steering Committee Co-Chair, Electrical Power And Energy Conference (EPEC 2010).
- Algonquin College presents to Wahab Almuhtadi "2009 Laurent Isabelle Award For Teaching Excellence,"
- Certificate Of Appreciation, IEEE Hereby Express Its Appreciation For Notable Services And Contributions Towards The Advancement Of IEEE And The Engineering Professions To Wahab Almuhtadi Chair Ottawa Section 2007-2008.
- 2008 IEEE Canada Exemplary Large Section Award in Recognition Ottawa Section Leadership, Management and Adminstration in 2007", IEEE Canada.
- Certificate of Recognition "For Contribution To The IEEE Electrical Power Conference 2007, Montreal IEEE Canada."
- 2007 Certificate of Recognition "For Outstanding Services And Establishing IEEE Electrical Power Symposia 2001-2006, Ottawa. IEEE Canada."
- Certificate of Recognition "For Contribution To IEEE CCECE 2006 As The Secretary & Registration Co-Chair of Canadian Conference On Electrical And Computer Engineering 2006."
- National Institute for Staff & Organizational Development (NISOD), The University of Texas at Austin present to Wahab Almuhtadi "2006 NISOD Excellence Award."
- Certificate of Recognition "For Outstanding Contribution In Organizing And Co-Chairing Annual Electrical Power Symposia 2005, IEEE Ottawa Section."
- IEEE Ottawa Section presents to Wahab Almuhtadi "In Recognition Of His Valuable Contribution To The IEEE Ottawa Section For The 2003."
- Nortel presents to Wahab Almuhtadi "Thanks For Making 2000 A Success For Optera Metro 3000."

- IEEE Ottawa Section and IEE presents to Wahab Almuhtadi "Certificate of Recognition and Appreciation for The Valuable Contribution to The Success of The IEEE/IEE Electrical Power Symposium Series Since 2000, as Co-Chair on The Organizing Committee."
- IEEE presents to Wahab Almuhtadi "2000 IEEE Third Millennium Medal for Outstanding Achievements and Contributions."

RESEARCH PROJECTS:

- 2016 2021 User-centric Networks: Building New User Experiences on Software Defined Networks Research Project (Algonquin College-TELUS Inc.). Funded with \$0.375M by TELUS and Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2016 2021 Bridging Broadband Gap: Novel Solutions for Expanding Cellular Coverage to Remote Communities Research Project (Algonquin College-TELUS Inc.). Funded with \$0.375M by TELUS and Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2012 2015 Mesh Network Multipathing Research Project (Algonquin College-TELUS Inc.). Funded with \$0.300M by TELUS and Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2012 2014 CT Wireless RF for Commercial Building Electrical Panels Research Project (Algonquin College-TRIACTA), funded with \$100k by TRIACTA and NSERC.
- 2012 2015 Traffic Engineering in WiMAX Mobile Networks Research Project (Algonquin College-EION Inc.), funded with \$0.300M by EION and NSERC.
- 2009 2011 Traffic Engineering in WiMAX Fixed Networks Research Project (Algonquin College-Carleton University-EION Inc.), funded by EION and OCE with \$0.311M
- 2010 IEEE Humanitarian Wireless WiFi Project for Latin America, (testbed, path/link between University of Ottawa and Algonquin College, \$25K
- 2009 Automotive Solar Powered Evaporative Cooler Research Project (Algonquin College-OCE), funded by OCE with \$15K
- 2008 2010 Remote Objective Monitoring of Bio-Signals ROMBOS Research Project (Algonquin College-University of Ottawa-Biosign Technologies), funded by OCE and Biosign Technologies with \$0.4M
- 2006 2008 QoS Optimization using Adaptive Intelligence Techniques in Satellite Systems Research Project (Algonquin College, Carleton University, University of Waterloo, EION Inc., and TELESAT), funded by OCE/CITO, PRECARN, TELESAT and EION with \$2.8M.
- 2003 2004 Remote/Rural WiFi Networks Research Project (Algonquin College) for Canada North and developing countries. Project funded by Canadian International Development Agency-CIDA, Industry Canada, and National Capital Institute of Telecommunications-NCIT) with \$100K.
- 2003 2004 Hybrid Power Node[™] Development Research Project (Algonquin College, CPN, Seewind), funded by OCE with OCE/CITO with \$60K
- 2005 Designed the project of Real-Time Virtual Post-Secondary Learning to connect Ottawa-Orleans high schools with Algonquin College through the Ottawa Optical Advanced Research Network (ORAN). The proposal submitted to the Ministry of Training, Colleges and Universities for \$1M fund.
- 2005 Designed Algonquin WiFi Project for a Canadian company working in Central Asia. Project fund \$20K.
- 2008 Amika Mobility Server Emergency Alerting Solution (Algonquin College- Amika). Project fund \$30K.

RESEARCH PROJECTS IN THE PROCESS FOR FUND:

2015/2020 Algonquin College, TELUS, Ciena, Juniper, and EXFO research project proposal to "Centre of Excellence in Next Generation Networks (CENGN)" in the area of development of Software Defined Networking (SDN), Network Functions Virtualization (NFV) Internet-of-Things (IoT), vast variety of devices and networks enabling emerging consumer electronics technologies such as smart devices, smart 4k/8k TV, autonomous transportation, real-time remote health care, and smart cities solutions.

Algonquin College, TELUS, and EION Wireless Inc. research project proposal to "Centre of Excellence in Next Generation Networks (CENGN)" in the area of development RF wireless coverage for remote and rural areas.

RESEARCH PROJECTS APPLIED FOR FUND:

- 2013 WiMAX Network Solution Project/Technical Problem Solving (TPS). Collaboration research project: EION Wireless Inc., and Algonquin College. Proposal submitted to Ontario Centres of Excellence–OCE. Period 2013, fund: \$25K.
- 2010 Measurement Quality Assurance for Personal Health Monitoring (MQA). Collaboration research project: University of Ottawa, Algonquin College, Ottawa, Biosign Technologies Inc., Toronto, and St. Michael's Hospital, Toronto. Application submitted to the Ontario Research Fund for Research Excellence Funding for \$ 1.4M.
- 2009 Advancing Photovoltaics for Economical Concentrator Systems APECS, (Algonquin College, University of Ottawa, Cyrium, Opel International, NRC, MRI). Proposal submitted to NSERC. Period 2010-2013, fund: \$3.0 M.

- 2009 Automotive Solar Powered Evaporative Cooler Research Project (Algonquin College-OCE), submitted to OCE for \$53K fund.
- 2008 Representing Algonquin College in a team of Industry-Academia who submitted in 2008 a proposal application to the NCE/Industry Canada for 2009 Centres of Excellence for Commercialization and Research (CECR) program competition. The project proposal is "Photonics Applications Factory". Period 2009 2013, fund: \$25.6M.

REVIEW PARTICPATION IN RESEARCH PROJECTS/ CENTRES OF EXCELLENCE EXPERT PANELS/CURRICULUA:

- 2013 Member of the Panel of Experts with the Networks of Centres of Excellence of Canada (NCE)/Industry Canada to review the industry-academia applications submitted for the 2014 Competition under the Business-Led Network of Centres of Excellence (BL-NCE) Program. NCE fund: \$12 M that is matched with the same amount or more by the competition winner.
- 2010 Niagara College Photonics Engineering Technology Program External Review
- 2006 Has an important role in the "Faculty Development and Upgrading Project for Yemen". This project is supported by the Canadian College Partnership Program/Partnership Program and provided by Algonquin College and Confederation to the Ministry of Vocational and Training, specifically to the Vocational, Industrial Institute in Taiz, Yemen. (Algonquin College, CIDA, ACCC) Project fund: \$0.5M

TRAINING OF HIGHLY QUALIFIED PERSONNEL:

Supervising and coordinating the final years research projects

- 2014 Coordinating and supervising 6 students of Wireless/Mobility Telecommunications Engineering Technology Program
- 2013 Coordinating and supervising 1 student of the Computer Engineering Technology Computing Science Program
- 2013 Coordinating and supervising 6 students of Wireless/Mobility Telecommunications Engineering Technology Program
- 2012 Coordinating and supervising 5 students of the Photonics Engineering Technology Program
- 2011 Coordinating and supervising 9 students of the Photonics Engineering (Bachelor) Program
- 2011 Coordinating and supervising 14 students of the Photonics Engineering Technology Program
- 2010 Coordinating and supervising 9 students of the Photonics Engineering (Bachelor) Program
- 2010 Coordinating and supervising 10 students of the Photonics Engineering Technology Program
- 2009 Coordinating and supervising 9 students of the Photonics Engineering (Bachelor) Program
- 2009 Coordinating and supervising 11 students of the Photonics Engineering Technology Program
- 2008 Coordinating and supervising 7 students of the Photonics Engineering (Bachelor) Program
- 2008 Coordinating and supervising 7 students of the Photonics Engineering Technology Program
- 2007 Coordinating and supervising 23 students of the Photonics Engineering Technology Program
- 2006 Coordinating and supervising 16 students of the Photonics Engineering Technology Program
- 2005 Coordinating and supervising 18 students of the Photonics Engineering Technology Program
- 2004 Coordinating and supervising 22 students of the Photonics Engineering Technology Program

PUBLICATIONS:

Technical Papers:

- Novel Application of Artificial Neural Network in Social Cyber Competency Testing, Soorena Merat, and Wahab Almuhtadi, submitted to IEEE Transactions on Information Forensics and Security, IEEE Signal Processing Society, 2021.
- Assessing Network Infrastructure-as-Code Security using Open Source Software Analysis Techniques Applied to BGP/BIRD, Wahab Almuhtadi, Wynn Fenwick, Liam Henley-Vachon and Peter Mitchell, submitted to 2022 IEEE International Conference
- on Consumer Electronics (ICCE), Las Vegas, NV, USA
 Malware Detection and Security Analysis Capabilities in a Continuous Integration / Delivery Context Using Assemblyline, Wahab Almuhtadi, Surbhi Bahri, Wynn Fenwick, Liam Henderson, Liam Henley-Vachon and Joshua Mukasa, 2021 IEEE International
- Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA
 Network Approaches to Improving Consumer IoT Security, Wahab Almuhtadi, Mr. Jordan Melzer, Ms. Aisha Ali, Mr. Jacques Latour and Mr. Michael Richardson, 2020 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA.
- Privacy and Security by Design, Ibrahim J. Gedeon; Pamela Snively; Carey Frey; Wahab Almuhtadi; Saraju P. Mohanty, IEEE Consumer Electronics Magazine, Year: 2020 | Volume: 9.
- Bandwidth Aggregation using MPTCP and WMNGateways, Kelvert Ballantyne, Wahab Almuhtadi, and Jordan Melzer /IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2016), May 15-19, 2016, Vancouver, BC, Canada.
- Standard ARPU Calculation Improvement Using Artificial Intelligent Techniques, Soorena Merat, and Wahab Almuhtadi, International Journal on Smart Sensing and Intelligent Systems, Vol. 8, No. 4, December 2015.
- Autoconfiguration for Faster WiFi Community Networks, Kelvert Ballantyne, Wahab Almuhtadi, and Jordan Melzer, IFIP/IEEE Symposium on Integrated Network and Service Management (IM 2015), May 11-156, 2015, Ottawa, Ontario, Canada.

- Comparison of Simulated and Real Network Traffic Results for Multimedia Streaming Over WiMAX Networks with QoS Scheduling, Natalia Gorbenko, Emmanuel Jeanpierre, Wahab Almuhtadi, and Anand Srinivasan, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2015), Halifax, Nova Scotia, Canada, May 3-6, 2015.
- Artificial Intelligence Application for Improving Cyber-Security Acquirement, Soorena Merat, and Wahab Almuhtadi, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2015), Halifax, Nova Scotia, Canada, May 3-6, 2015
- Cyber-Awareness Improvement Using Artificial Intelligence Techniques, Soorena Merat, and Wahab Almuhtadi, International Journal on Smart Sensing and Intelligent Systems, Vol. 8, No. 1, March 2015.
- WiMAX Architecture Priority Scheduling for Multimedia Applications, Emmanuel Jeanpierre, Ricky Wong, Wahab Almuhtadi, and Anand Srinivasan, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2014), Toronto, Ontario, Canada, May 4-7, 2014.
- Aggregating Internet Access in a Mesh-Backhauled Network through MPTCP Proxying, Thanh-Hieu Nong Ricky Wong, Wahab Almuhtadi, and Jordan Melzer, IEEE International Conference on Computing, Networking and Communications (ICNC 2014), February 3-6, 2014, Honolulu, Hawaii, USA.
- Optimizing Wireless Performance of Current Metering and Consumption Control in Commercial Buildings, Kelvert Ballantyne, Shilian Zhoa, Natalia Gorbenko, Wahab Almuhtadi, and Denis Gallant, IEEE Electrical Power and Energy Conference 2013 (EPEC 2013), 21 Aug 23 Aug 2013, Halifax, Nova Scotia, Canada.
- WiMAX Network with Quality of Service for Streaming Multimedia Applications, Ricky Wong, Wahab Almuhtadi, and Anand Srinivasan, 19th International Wireless Conference and Mobile Computing (IWCMC 2013), July 1-5, 2013, 2013, Cagliari, Sardinia, Italy.
- Artificial Finger Detection by Spectrum Analysis, Chang Shoude, Jeff Secker, Qinghan Xiao, Alexander Bergeron, Brittany Reid, Wahab Almuhtadi, JBM-19435, International Journal of Biometrics, Inderscience Publishers, Geneva, Switzerland, February 2011.
- QoS Performance Testing of Multimedia Delivery over WiMAX Networks, Douglas Reid, Anand Srinivasan, Wahab Almuhtadi, 1st International Conference on Data Compression, Communication and Processing (CCP 2011), June 21-24, 2011, Palinuro (Cilento Coast), Italy
- Wireless Connectivity for Remote Objective Monitoring of Bio-Signals, Aswin Aristama, Wahab Almuhtadi, 1st International Conference on Data Compression, Communication and Processing (CCP 2011), June 21-24, 2011, Palinuro (Cilento Coast), Italy.
- Advanced Nondestructive Evaluation technique to monitor after power Nuclear Fuel Bundles, Using Wireless Sensor Network Incorporated with Interrogating Background Radiation, Soorena Merat, Wahab Almuhtadi, submitted to IEEE CCECE 2011, Niagara Falls, Ontario, Canada, May 2011.
- Performing Non Destructive Evaluation On Nuclear Fuel Bundle Elements Using Wireless Sensor Network Incorporated With Interrogating Background Radiation", by Soorena Merat (AREVA NP Canada, Algonquin Graduate), Wahab Almuhtadi (Algonquin College), IEEE GLOBCOM 2010, Miami, Florida, USA Dec. 6 -10, 2010.
- Investigating the optimal regime operation for multi-channel 10G systems using pluggable XFPs", Wahab Almuhtadi, Ahmed Attieh, Philip Copping, and Josh Kemp, Photonics North 2010, Niagara Falls, Ontario, Canada, June 1-3, 2010
- Throughput Measurement Procedure, Implementing Trend Identification with Least Squares Method into CommTest on an Intelligent Satellite Services Network, Wahab Almuhtadi, Devin Murphy, and Mike Rosberg, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2010), Calgary, Alberta, Canada, May 2-5, 2010.
- Newly Designed Evaporative Air Cooler with Low Energy Consumption, Abdul Al-Azzawi, Wahab Almuhtadi, 2010 IEEE PES Transmission and Distribution Conference and Exposition, New Minneapolis, Minnesota, USA, July 25 29, 2010.
- Energy Saving by Using Newly Designed Automated Solar Powered Evaporative Air Cooler (ASPEAC), Abdul Al-Azzawi, Wahab Almuhtadi, 2009 IEEE Canada Electrical Power Conference, Montreal, Canada, October 22-23, 2009.
- Wireless Connectivity for Remote Objective Monitoring of Bio-Signals, Aswin Aristama, Wahab Almuhtadi, IEEE Canada Telus Papers Competition, September, 2009.
- Wireless network channel quality estimation inside reactor building using RSSI measurement of wireless sensor network, Soorena Merat ; Wahab Almuhtadi, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2009), St. John's, Newfoundland and Labrador, Canada, May 3-6, 2009.
- Birefringence measurement of silica-on-silicon channel waveguides, Wahab Almuhtadi, Asad Khan and Patrick Dumais, Photonics North 2009, Quebec City, June, 2009.
- Investigating Pluggable Transceivers' Laser Linewidth, Chirp, and Stimulated Brillouin Scattering Effects on Data Transmission in Different Kinds of Optical Fibers, Ahmad Atieh, Serge Terekov, Rathy Shankar, Wahab Almuhtadi, 2009Photonics North, Quebec City, June, 2009.
- Logarithmic Axion Generating Non-Diffracting Beams With Constant On-axis Intensity, Pavel Breygin, Dariusz Nowacki, Ilya Golub, Wahab Almuhtadi, and Brahim Chebbi, Photonics North 2009, Quebec City, June, 2009
- Beam Engineering: From Diffraction Free to Absorption Free, Ilya Golub, Wahab Almuhtadi, Robert Weeks, Canadian Laser Application Network (CLAN) Workshop 2009, Toronto, Canada
- Algonquin College Photonics and Research Programs, Ilya Golub, Wahab Almuhtadi, Robert Weeks, Canadian Laser Application Network (CLAN) Workshop 2009, Toronto, Canada

- 10 Gb/s Optical Path Protection Switch Based on Optical Loop Mirror Configuration, Wahab Almuhtadi, Ashley Pak, Ahmad Atieh, Abdul Al-Azzawi, Photonics North 2008, Montreal, Quebec, June, 2008
- Dispersion Compensation in Optical Coherence Tomography (OCT) Using Singular Value Decomposition, Wahab Almuhtadi, Sherif Sherif, Devin Murphy, Costel Flueraru, Shoude Chang, Youxin Mao, Photonics North 2008, Montreal, June, 2008
- Estimation of Signal to Noise Ratio Value Based on Autoregressive Integrated Moving Average Model in Intelligent Satellite System, Wahab Almuhtadi, Omatayo Olafimihan, Aswin Aristama, Brian Chang, IEEE CCECE 2008, Niagara Falls, Canada, 2008.
- The Use of Explicit Congestion Notification to Shape Traffic of an Intelligent Satellite System, Wahab Almuhtadi, Devin Murphy, Brian Chang, IEEE RWS 2008, Orlando, Florida, USA, 2008.
- Characterizing Performance of an Adaptive Intelligent QoS Optimization of Satellite Systems, Jason Tang, Devin Murphy, Wahab Almuhtadi, IEEE CCECE 2007, Vancouver, Canada, 2007.
- Numerical Dispersion Compensation for Optical Coherence Tomography in the Wigner Domain, Sherif Sherif, Wahab Almuhtadi, Kalon Huff, Costel Flueraru, Shoude Chang, Youxin Mao, Photonics North, Ottawa, 2007
- WiFi Broadband Networks for Wide Rural and Remote Areas, Wahab Almuhtadi, IEEE CCECE 2006, Ottawa, Canada, 2006
- Rural/Remote WiFi Wireless Broadband System. IEEE Wireless On-demand Network Systems and Services, Wahab Almuhtadi, IEEE WONS 2005, Saint Moritz, Switzerland, 2005
- From diploma to degree in photonics, Brahim Chebbi, Treena Grevatt, Robert Weeks, Mostefa Mohammed, Peter J Casey, Wahab Almuhtadi, Abdul Al-Azzawi; SPIE PHOTONICS NORTH, Ottawa, 2004

Books, Reports and Testing Plans:

- State of the art in Biometrics "Fingerprint Spoof Detection By NIR Optical Analysis", Chapter 3, by Shoude Chang, Kirill Larin, Youxin Mao, Wahab Almuhtadi and Costel Flueraru, ISBN 978-953-307-489-4, InTech, Vienna, Austria, December 2011.
- Test Specification: QoS Optimization using Adaptive Intelligence Techniques in Satellite Systems, Jason Tang, Wahab Almuhtadi, Ottawa, 2006
- Optical Fiber Communications Lab Manual, Wahab Almuhtadi, Ottawa, 2006
- Photonics Principles and Practices, Abdul Al-Azzawi, Wahab Almuhtadi, Charles Bamber, Robert Weeks, Imad Hasan, Valerie Dube, CRC Press, New York, 2006
- Fiber Optics Principles and Practices, Abdul Al-Azzawi, Wahab Almuhtadi, Charles Bamber, Robert Weeks, Imad Hasan, Valerie Dube, CRC Press, New York, 2006
- Designing and Building Rural Wi-Fi Networks A Do-it-Yourself Cookbook, W. Almuhtadi, Soorena Merat, 2006.
- Designing and Building Rural Wi-Fi Networks A Do-it-Yourself Cookbook, D. Reid, I. Easson, W. Almuhtadi. Adapted for Asia Pacific Economic Corporation-APEC, Telecommunications and Information Working Group, 2005
- Designing and Building Rural Wi-Fi Networks A Do-it-Yourself Cookbook, D. Reid, I. Easson, W. Almuhtadi, 2004
- Rural/Remote Wireless Research Project: Final Technical Report, Doug Reid, Ian Easson, Wahab Almuhtadi, Aug 30 2004, Addendum Added Nov 29 2004 (Sponsored by Algonquin College, CIDA, IC, and NCIT)
- "OC-192 STS/STX-192 Protection Switching Release 10.0/ OC-192", Ottawa, 2001
- "OPTera Metro 330/3400 MSP Release 9.1 Large System Testing (LST)", Ottawa, 2001
- "Release 10.0/ OC-192 NTP Documentation", Ottawa, 2001
- "Release 9.1/OC-3/OC-12 NTP Documentation", Ottawa, 2001
- "DS1 Service Module (DSM) for OM3500/Rel 9.0 OC48", Ottawa, 2000/2001
- "Equipment and Facility Operation, Administration, Maintenance & Provisioning (OAM&P) for OPTera Metro 3300/3400 Release 7.0/7.1", Ottawa, 1999/2000

PROFESSIONAL AFFILIATIONS AND ACTIVITIES:

MEMBERSHIP:

- 2017 present Fellow of the Engineering Institute of Canada (EIC).
- 2006 present Senior Member of the Institute of Electrical and Electronics Engineers, Inc. (IEEE).
- 1995 present Member of the Association of Professional Engineers of Ontario (PEO).
- 1993 2006 Member of the Institute of Electrical and Electronics Engineers, Inc. (IEEE).

IEEE POSITIONS:

- 2019-2022 President, IEEE Consumer Technology Society (CTSoc) and Chair of the CESoc Board of Governors
- 2018 President-Elect, IEEE Consumer Technology Society (CTSoc)
- 2017 2018 Vice President Education, IEEE Consumer Technology Society,
- 2018 2019 Member of the Board of Governors, IEEE Communications Society (ComSoc)
- 2018 2019 Director, ComSoc North America Board Canada, IEEE Communications Society (ComSoc)
- 2017 2019 IEEE Canada Publications & Communications Group (IEEE Region 7)
- 2014 2018 Member of Board of Governors, IEEE Consumer Technology Society (CESoc)

- 2013 present Director, IEEE Canadian Foundation Committee, IEEE Region 7
- 2013 present Chair, Section Liaison Committee, IEEE Canadian Foundation Committee, IEEE Region 7
- 2013 Nominated to serve as a Member of 2014 IEEE Governance Committee, IEEE
- 2011 present IEEE Canadian Foundation Committee Member, IEEE Region 7
- 2009 present Vice Chair of the Senate, IEEE Ottawa Section
- 2008 present Information Technology Coordinator, Communications Society North American Board
- 2008 present Chair of the Communication Society, Consumer Technology Society and Broadcasting Technology Society Ottawa Joint Chapter
- 2005 present Chair of the Award Committee, IEEE Ottawa Section
- 2010 present Executive Advisor and Mentor, IEEE Algonquin College Student Branch
- 2014 2018 Distinguished Lecture Chair, and Education and Webinar Chair IEEE Consumer Technology Society (CTSoc)
- 2008 2017 IEEE ComSoc Canada Representative and Member of Communications Society North America Board
- 1996 2017 Chair of the Power & Energy Society Ottawa Chapter
- 2013 2016 Chair, IEEE Canada Conference Advisory Committee, IEEE Region 7
- 2014 2016 IEEE Eastern Canada PES Chapters Representative, IEEE Power & Energy Society
- 2013 2014 IEEE Centre for Leadership Excellence Committee Member, MGA, IEEE
- 2010 2012 Chair, IEEE Eastern Canada (NB, NL, NS, ON, PE, QC), IEEE Region 7
- 2008 2012 IEEE Eastern Canada PES Chapters Representative, IEEE Power & Energy Society
- 2009 2011 IEEE Member Geographical Activities -Information Management, MGA, IEEE
- 2003 2010 Counsellor, IEEE Algonquin College Student Branch
- 2009 Nominated to Vice Chair of IEEE Member Geographical Activities -Information Management (2010), MGA, IEEE
- 2009 2010 Chair, Nomination and Appointment Committee, IEEE Ottawa Section
- 2007 2008 Chair of the Institute of Electrical and Electronics Engineers-Ottawa Section
- 2007 2008 Member of Board of Directors of IEEE Canada
- 2006 Vice Chair IEEE Ottawa Section
- 2005 2008 Chair of the Senior Membership Committee, IEEE Ottawa Section
- 1996 2000 Chair of the Reliability Society Chapter, IEEE Ottawa Section

CONFERENCES/SYMPOSIA/WORKSHOPS:

2021 Executive Conference Chair & Organizing Chair, International Conference on Communications-(ICC2021) Executive Committee Member, IEEE International Conference on Consumer Electronics (ICCE-LasVegas) 2014-2020 2019 Executive Committee Member: IEEE International Conference on Consumer Electronics-(ICCE'19-Berlin), IEEE International Conference on Consumer Electronics-(ICCE'19-Asia), IEEE International Conference on Consumer Electronics-(ICCE'19-Taiwan), IEEE International Symposium on Consumer Technology-(ISCT'19-Italy), IEEE Games Entertainment & Media-(GEM2019). IEEE Global Conference on Consumer Electronics-(GCCE2019) 2019 Executive Committee Member, International Conference on Electronics, Information, and Communication-(ICEIC2019) 2016 Vice Chair, IEEE 2016 International Symposium on Electromagnetic Compatibility (EMC 2016), Ottawa, Canada Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2016, Ottawa, Canada 2016 Chair, (IM2015) IFIP/IEEE International Symposium on Integrated Network Management, Ottawa, Canada 2015 Chair, Publication Committee and Adviosr, IEEE Radar Conference 2013, Ottawa, Canada 2013 Co-Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2013, Halifax, Canada 2013 Executive Conference Chair & Organizing Chair, International Conference on Communications (ICC 2012), Ottawa, 2012 Canada 2012 Co-Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2012, London, Canada 2011 Co-Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2011 (EPEC 2011), Winnipeg, Canada Co-Chair, Organizing Committee, Information Photonics 2010 conference, Ottawa, Canada 2010 Co-Chair, Local Arrangements, IEEE International Workshop on Medical Measurements and Applications 2010 (MeMeA2010), Ottawa, Canada Co-Chair, Steering Committee, Workshop on Adverse Response Monitoring (WARM 2010)/ Technologies for Self-2010 Monitoring, Analysis and Reporting of Adverse Response to Medication (SMART ARM), Ottawa, Canada Co-Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2010, Halifax, Canada 2010 Co-Chair, Steering Committee, IEEE Canada Electrical Power Conference, 2009, Montreal, Canada 2009 Co-Chair, Local Arrangements, IEEE International Workshop on Medical Measurements and Applications 2008 (MeMeA2008), Ottawa, Canada Co-Chair, Steering Committee, Workshop on Adverse Response Monitoring (WARM 2008), Ottawa, Canada 2008 Co-Chair, Advisory Committee, IEEE Canada Electrical Power Conference, 2008, Vancouver, Canada 2008

- 2007 Co-Chair, IEEE Canada Electrical Power Conference, 2007, Montreal, Canada
- 2007 Co-Chair, Organizing Committee, Non-invasive Blood Pressure Measurements & Standardization Workshop 2007
- 2006 Chair, Registration, Canadian Conference on Electric and Computer Engineering 2006 (CCECE2006), Ottawa
- 2006 Secretary, Canadian Conference on Electric and Computer Engineering 2006 (CCECE2006), Ottawa, Canada
- 2006 Co-Chair, IEEE Ottawa Electrical Power Symposium, Ottawa, Canada
- 2005 Co-Chair, IEEE Ottawa Electrical Power Symposium, Ottawa, Canada
- 2004 Co-Chair, IEEE Ottawa Electrical Power Symposium, Ottawa, Canada
- 2003 Co-Chair, IEEE Ottawa Electricity Deregulation Symposium, Ottawa, Canada
- 2002 Co-Chair, IEEE Ottawa Electricity Deregulation Symposium, Ottawa, Canada

Other Conferences:

- 2014 Co-Chair, Organizing Committee, ACCC 2014 Conference (Collaboration-Innovation-Transformation) http://conference.accc.ca, 2014, Ottawa, Canada
- 2004 Co-Chair, Ottawa Smart Energy Fair 2004 (SEF2004), Ottawa, Canada

OTHER ACTIVITIES:

- Institution of Engineering & Technology (IET) Ottawa Local Network
- Professional Engineers Ontario (PEO) Ottawa Chapter
- Society of Reliability Engineers (SRE) Ottawa Chapter

004440040

- Ottawa Electronics Club
- Ottawa Photonics Cluster
- Ottawa Wireless Cluster (OWC)
- Ottawa Talent Initiative (OTI)

SUPERVISION: FINAL YEAR RESEARCH PROJECTS AND THESES (2003-2019)

Program: Bachelor of Applied Technology – Photonics (BAT)
Program: Photonics Engineering Technology (PET)
BAT Course: PHY2713-Photonics Research Project, and PHY2812 Advanced Research Project
PET Course: PHY8754 Photonics Research Project and Thesis
Faculty: Prof. Wahab Almuhtadi

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Jeff Zhao, Watson Ly, James kuhl, Jiachen Wang	Hybridization of Structured Light and Time-of- Flight Sensing using maximum a posteriori Markov Random Fields	Algonquin College: Dr. Pierre Berini, Dr. Wahab Almuhtadi
2	Yuhao Qiu, Jaydeep Brahmbhatt, Gregory Wardle	Manufacturing an Indium Tin Oxide (ITO) Strain Gauge Using a Picosecond Laser	<i>Algonquin College:</i> Dr. Wahab Almuhtadi
3	Eric Xu, Yunis Rajab, Eric Smith	Design and Building Heads-up Display System for Motorcycle Helmet	Algonquin College: Dr. Wahab Almuhtadi,
4	Eric Arezza	Optical Set-Up For Interrogating Plasmonic Biosensors	University of Ottawa: Dr. Pierre Berini, Algonquin College: Dr. Pierre Berini, Dr. Wahab Almuhtadi

2018/2019 Research Projects/Theses Supervision:

	2011/2012 Research Projects/Theses Supervision:			
No.	Student Name	Project/Thesis Title	Supervisor(s)	
1	Clement, Michael Anthony	Design and Fabrication of an Outdoor Concentrated Solar Cell Tester and Testing the "Real Sun" Rays on The Cell.	Algonquin College: Dr. Wahab Almuhtadi Dr. Mohammed Mostefa Cyrium Technologies: Dr. Denis Masson	
2	Dickinson, Colin	Biodiesel Optical Monitoring System	Algonquin College:	

. .

			Dr. Wahab Almuhtadi Dr. Bob Weeks
3	Griffiths, Dylan	Development of Swept Wave System (SWS) and Fiber Welding for Passive Optical Component Measurement System	Algonquin College: Dr. Wahab Almuhtadi, Dr. Ilya Golub, Dr. Theo Mirtchev
4	Labonte, Joseph	Enhancements and novel applications of CO2 Lasers	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Hui, Luo
5	Schubert, Alexander	Pulsed CO2 laser improvements	Algonquin College: Dr. Wahab Almuhtadi Carleton University: Dr. Khaled Mnaymneh
6	Jones, Wayne	Fizeau Interferometer Construction	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Bob Weeks

2010/20111 Research Projects/Theses Supervision (Group A):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Adam Rutledge	Phase Engineered Optics for Solid State Lighting - Simulation	Algonquin College: Dr. Wahab Almuhtadi Dr. Theodore Mirtchev Dr. Ilya Golub <i>B-Con Engineering:</i> Brian Creber
2	Andrew Jacques	Optical Diffraction Particle Size Distribution Analyzer for Inline Water Quality Control	Algonquin College: Dr. Wahab Almuhtadi EcoVu: Dr. Mike Donkers
3	Samuel Orajiaku	Optical Diffraction Particle Size Distribution Analyzer for Inline Water Quality Control - Mie Scattering Software for Analysis	Algonquin College: Dr. Wahab Almuhtadi EcoVu: Dr. Mike Donkers

2010/2011 Research Projects/Theses Supervision (Group B)::

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Patrick Couture	Hybrid Fiber Optic Lighting System	Algonquin College: Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi, Dr. Mohammed Mostefa VELUX
2	Hafed Nabbus	Hybrid Fiber Optic Lighting System	Algonquin College: Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi, Dr. Mohammed Mostefa VELUX
3	Alfredo Ortega	Design a Hybrid Power Supply to an Evaporative Air Cooler	Algonquin College: Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi SORTEK
4	Zaw Bobo Htet	Design a Hybrid Power Supply to an Evaporative Air Cooler	Algonquin College: Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi SORTEK
5	Robert Odudu	Thermal Design and Management of Hybrid Planar Lightwave Circuit (PLC) Chips in Compact Packaged Devices	Algonquin College: Dr. Wahab Almuhtadi Enablence:

			Dr. Serge Bidnyk,
			Matt Pearson,
			Asnok Balakrishnan
		Evalua1on of Fiber Bragg Sensor Systems for	Algonquin College:
6	Raymond Daniel	Structural Health	National Possanch Council NPC:
		Monitoring	Dr. Goorge Vieg
			Algonguin College:
		Development of FDC Sensor Interrogetors	Dr. Wahah Almuhtadi
7	Quoc Diep	Embedded System Design and Data Processing	National Research Council-NRC:
		Embedded System Design and Data Processing	Dr. George Xiao
			Algonquin College:
			Dr. Wahab Almuhtadi
8	Jean-Luc Abraham	Brain On a Chip	National Research Council-NRC:
			Dr. Christophe Py
			National Research Council-NRC:
			Dr. Dolores Martinez
9	Tyler Williams	Brain On a Chip (Micofabrication)	Algonquin College:
			Dr. Wahab Almuhtadi
			Algonauin College:
		Study on the Selectivity Improvement of	Dr. Wahab Almuhtadi
10	Sean Kisil	Formaldehyde Sensor	National Research Council-NRC:
			Dr. Frank (Zhivi) Zhang
			Algonauin College:
			Dr. Wahab Almuhtadi
11	Mason Gresham	Characterization of Femtosecond Laser Pulses	National Research Council-NRC:
			Dr. Rune Lausten,
			Dr. Benjamin Sussman
			Algonquin College:
12	Charles Aubry	Development of Optical Interference Thin Film	Dr. Wahab Almuhtadi
12	Charles Aubry	Filters For The Infrared Spectral Range	Iridian:
			Dr. Claude Montcalm
			Iridian:
13	Richard St-Onge	Localized Annealing for Uniformity	Dr. Yongbao Xin
15	Rienard St Onge	Improvement of Optical Filters	Algonquin College:
			Dr. Wahab Almuhtadi
			Algonquin College:
14	Tony Duong	Golden Test Jumper and connector Polishing	Dr. Wahab Almuhtadi
	, ,	· · · · · · · · · · · · · · · · · · ·	Sanmina-SCI (BreconRidge):
			Vince Guthro,
		D M D E C. P.	Algonquin College:
15	Ahmed Abdelghani	Preventive Maintenance Program For Splicer	Dr. Wahab Almuhtadi
	C C	and Cleavers	Optellan: Mr. Echic Duttere
			Algonguin Collage:
		Colden Test Jumper and Connector Polishing	Argonquin College:
16	Moahmad Al-Noamany	Golden Test Jumper and Connector Polishing	Ontalian
			Mr. Fabio Buttera
1		1	INIT. Faulo Duttera

2009/2010 Research Projects/Theses Supervision (Group A):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Ajjour, Maher	Preparation of Optical Quality Facets in SOI Waveguides (Polishing)	Algonquin College: Dr. Wahab Almuhtadi, Dr. Mohammed Mostefa <i>COM DEV International:</i> Dr. Alan Scott
2	Al-Akwaa, Nezar	Measurements and Tracking of Optical Filter Surface Defects and Roughness	<i>Algonquin College:</i> Dr. Wahab Almuhtadi <i>Iridiain:</i> Dr. Claude Montcalm
3	Harb, Alaa	Surface Enhanced Raman Scattering for Monitoring Bio-chemical Species within Photonic Crystal Fiber	Algonquin College: Dr. Wahab Almuhtadi University of Ottawa: Dr. Hana Anis, SITE,

4	Sarin Sikka, Bhavna	Comparative Study of Various Methods of Collimation Using Different Types of Lenses and Fibers	Algonquin College: Dr. Wahab Almuhtadi OZ Optics: Garland Best
5	Starikov, Artem	Integration of an Optical Microscope With a Spectrofluorometer and Implementation of Microscopic Spectrofluorometric Techniques for Characterization of Bio and Nano Materials	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Zygmunt Jakubek, NRC

2009/2010 Research Projects/Theses Supervision (Group B):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Brown, Joseph	Thermo-optic Photonic Devices for Communication Applications - Fabrication and Characterization	Algonquin College: Dr. Wahab Almuhtadi Communications Research Centre (CRC): Dr. Chantal Blanchetière, Sarkis Jacob
2	Coligado, Mark John	Characterization of Formaldehyde Gas Pre- Concentrator	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. George Xiao
3	Copping, Philip	Investigating Optimal Regime Operation for Multi-channel 10G Systems Using Pluggable XFPs	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Josh Kemp, Dr. Ahmed Atieh
4	Fairclough, William	Planar Waveguide Long Period Gratings Based on Silica-on-Silicon for EDFA Gain Flattening	Algonquin College: Dr. Wahab Almuhtadi Communications Research Centre (CRC): Dr. Jia Jiang
5	Logan, Chris	Automated Layer Roughness Detection of Delayered ICs Using Scanning Electron Microscope	Algonquin College: Dr. Wahab Almuhtadi Chipworks: Neal Stansby
6	Olivieri, Anthony	Die Preparation and Testing of Plasmonic Schottky Barrier Photodetectors	Algonquin College: Dr. Wahab Almuhtadi University of Ottawa: Dr. Pierre Berini
7	Pleckaitis, Ryan	Develop a Process Complete with Documentation for Re-polishing of Optical Connectors Both Hand Polishing and Semi-automated	Algonquin College: Dr. Wahab Almuhtadi BreconRidge: Vince Guthro, Victor Nekhay
8	Vanderhulst, Brent	Develop a Process Complete with Documentation for Active Alignment Splicing of Optical Fibers	Algonquin College: Dr. Wahab Almuhtadi BreconRidge: Vince Guthro, Thoba Nguyen,

2008/2009 Research Projects/Theses Supervision (Group A):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Alawami, Mohammed	Design and Optimization of a Photovoltaic Power Source for an Evaporative Cooler	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi
2	Salami, Oluwafemi	Design and Optimization of a Photovoltaic Power Source for an Evaporative Cooler	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi
3	Aristama, Aswin	Remote Objective Monitoring of Bio-Signals (ROMOBS)	Algonquin College: Dr. Wahab Almuhtadi University of Ottawa:

			Dr. Voicu Groza
4	Khan, Asad	Photonic Waveguide Birefringence Measurement	Algonquin College: Dr. Wahab Almuhtadi Communications Research Canada (CRC): Dr. Patrick Dumais
5	Terekhov, Serge	Investigating Laser Line-widths for Different Kinds of Transceivers (SFP/XFP) on Reach	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Ahmed Atieh

2008/2009 Research Projects/Theses Supervision (Group B):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Jacques, Andrew	Process Control Analysis of High Efficiency Concentrator Photo-Voltaic Cells (CPVC's)	Algonquin College: Dr. Wahab Almuhtadi <i>Cyrium Technologies:</i> Dr. Denis Masson
2	Nowacki, Dariusz	Imaging With Different Axicons.	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Ilya Golub
3	Nuttall, Jonathan	Optimization and Testing of a Single Molecule Fluorescence Microscope.	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Jakubek, Zygmunt Dr. Linda Johnston,;
4	Pakdaman, Amirmasoud	Product Development of Passive and Active Components for Optical Networks	Algonquin College: Dr. Wahab Almuhtadi VISCORE: Dr. Kin-Wai, Leong
5	Reid, Brittany and Bergeron, Alexander	Improved Fingerprint Recognition: Recognizing Artificial Fingerprints From Real Ones	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Shoude Chang
6	Wehbe, Mostapha	Energy Saving in a Building Using Solar and Fiber Optic Technologies	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Abdul Al-Azzawi

2007/2008 Research Projects/Theses Supervision (Group A):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Alawami, Mohammed	Investigating laser linewidth/chirp of small form factor pluggable (SFP) on fiber dispersion	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Ahmed Atieh
2	Haines, Mark	Optical pickups for stringed instruments	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks Dr. Mohammed Mostefa
3	Murphy, Devin	Image Extraction in Optical Coherence Tomography	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Sherif Sherif
4	Olafimihan, Omotayo	Characterization of Radiation Measurements of THz Quantum Well Laser	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Peter Grant
5	Pak, Ashley	Optical Path Protection Scheme Using Loop Mirror	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Ahmed Atieh
6	Santos, Sandra	Measurements Using a Vision System	Algonquin College:

	Dr. Wahab Almuhtadi National Research Council-NRC Dr. Charlie Bamber	7.
	Dr. Charlie Bamber	

2007/2008 Research Projects/Theses Supervision (Group B):

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Adem, Selah	Characterizing Wavelength Selective Switch Technologies for Optical Reconfigurable Add/Drop Multiplexers Applications	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Ahmed Atieh
2	Gourley, Kevin	Designing Methods for Controlling Light Intensity Distribution	Algonquin College: Dr. Wahab Almuhtadi Dr. Brahim Chebbi Dr. Ilya Golub
3	Harrison, Jason	RTL Code Verification of an OC-48 Framer Macro "Ariel SONET 48"	<i>Algonquin College:</i> Dr. Wahab Almuhtadi <i>Galazar:</i> Dr. Nizar Rida
4	Ronbeck, Patrick	Characterizing Tunable Transponders for Agile Optical Networks	Algonquin College: Dr. Wahab Almuhtadi BTI Systems: Dr. Ahmed Atieh
5	Saucier, Joel	Study of 3D Objects By a 3D Laser Scanner With Variable Focus Capability	<i>Algonquin College:</i> Dr. Wahab Almuhtadi <i>Neptec:</i> Dr. Sean Zhu
6	Weinfurter, Mark	Solar Simulator Optimization.	Algonquin College: Dr. Wahab Almuhtadi Luzchem: Adriana La Liberte,

2006/2007 Research Projects/Theses Supervision:

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Akpan, Aniefiok	Optical Video and Voice Communication Link	Algonquin College:
-		Construction	Dr. Wahab Almuhtadi
			Algonquin College:
2	Akpan, Idongesit	Acousto-Optic Modulation In Free Space	Dr. Wahab Almuhtadi
			Dr. Bob Weeks
			Algonquin College:
		Magguramonts of Quantum Wall Infrand	Dr. Wahab Almuhtadi
3	Ambrose, Ubong	Photo detectors Using CO2 Leasure	National Research Council-NRC:
		Photodetectors Using CO2 Lasers	Dr. Peter Grant
			Dr. Sylvain Charbonneau
4	Olsah Emmanual	Optical Video and Voice Communication Link	Algonquin College:
4	Okon, Emmanuel	Construction	Dr. Wahab Almuhtadi
	Okongko, Christopher	Multi-Mode and Single Fiber Optic Losses Validation	Algonquin College:
5			Dr. Wahab Almuhtadi
			Dr. Imad Hasan
6		ng Acousto-Optic Modulation In Free Space	Algonquin College:
	Udofia, Mfonobong		Dr. Wahab Almuhtadi
0			Dr. Bob Weeks

2005/2006 Research Projects/Theses Supervision:

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Boyer, Chad	Testing of Gallium Nitride Based Discrete Devices	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Jennifer Bradwell

2	Anderson, Daniel	Intersection Signalization	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Mohammed Mostefa
3	Wernik, Bart	Optical Voice Communication Link Construction	Wahab Almuhtadi (Algonquin)
4	Morris, Luke	Construction of Laser Optical Tweezer (Trap System)	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks Dr. Charlie Bamber
5	Patterson, William	Video Conferencing Using Multi-mode Fiber Technology	<i>Algonquin College:</i> Dr. Wahab Almuhtadi
6	Shoemaker, Daniel	Nitrogen Laser Construction	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Bob Weeks
7	Ali, Girde	Acousto-Optic Modulation In Free Space	<i>Algonquin College:</i> Dr. Wahab Almuhtadi Dr. Bob Weeks

2004/2005 Research Projects/Theses Supervision:

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Ali, Girde	Acousto-Optic Modulation In Free Space	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks
2	Donahue, Mark	Optical Methods for the Determination of Ethanol Concentration in Ethanol Based Fuel	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks <i>logen:</i> George Morgan Mike Fletcher
3	Giggey, Andrew	CO ₂ Laser and Applications	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks
4	Laporte, William	Cutting, Drilling and Welding Using a Single Laser	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks
5	Hussein, Kaltoon	Multi-Mode and Single Fiber Optic Losses	Algonquin College: Dr. Wahab Almuhtadi Dr. Imad Hasan
6	Aumont, Matthew	Fizeau Interferometer Construction	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks
7	Kasper, Peter and Yusuf, Yusuf	Re-design and Automation of The Fiber Cable Pull Test Machine	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks Dr.Brahim Chebbi Dr. Bob Weeks <i>logen:</i> Youseph Fershet,

2003/2004 Research Projects/Theses Supervision:

No.	Student Name	Project/Thesis Title	Supervisor(s)
1	Guerard, Mike	Electrochemiluminescence from Disposable Chips for Bioanalysis	Algonquin College: Dr. Wahab Almuhtadi National Research Council-NRC: Dr. Ming Zhou
2	DesRoches, Brandon	Building a Laser Light Show from Scratch	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks
3	Rihani, Joe	Development a Novel All Passive OSNR Monitor	Algonquin College: Dr. Wahab Almuhtadi Dr. Bob Weeks

			National Research Council-NRC:
			Dr. Fengguo Sun,
			Algonquin College: Dr. Wahah Almuhtadi
4	Duong, Quan	Waveguide Testing and Characterization	National Research Council-NRC:
			Algonguin Collaga:
5	Simons-Papurkov,	Integration of Optical Coherence Tomography	Dr. Wahab Almuhtadi
5	Mike	Systems	National Research Council-NRC:
			Dr. Shoude Chang
	Distributed Strain and Temperature F		Algonquin College:
		Distributed Strain and Temperature Fiber Ontic	Dr. Wahab Almuhtadi
6	Machado, Tony	Sonsing using Brillouin Scattoring	Dr. Brahim Chebbi
		Sensing using Drinoum Scattering	University of Ottawa:
			Xiaoyi Bao
7		Solar Water Heater Using Optical Fiber System	Algonquin College:
	Morrison, William		Dr. Wahab Almuhtadi
			Dr. Abdul Al-Azzawi