NIC
DURISH

INNOVATOR · DESIGNER
COMPUTER SCIENTIST

ND

GUELPH, ON
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N.DURISH@GMAIL.COM

🌐 NICDURISH.ORG   NICDURISH 🔗
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EXPERTISE
Project Management
Problem Solving
Teamwork
Presentation Skills

TECH SKILLS
C · Python · Java
MySQL · PostgreSQL
CSS · HTML · Javascript
YAML · Git · Cron · Regex

CERTIFICATIONS
Emergency First Aid
Standard First Aid
CPR (Class C)
Ski Instructor (Level 1)
Ski Coach (Level 1)
Drivers License (Class C)

INTERESTS
Camping · Canoeing · Skiing
Carpentry · Restoration
Automation · Tiny Homes
Backyard Chickens

👤 FOREWORD

A hard working and self-motivated individual with strong initiative and enthusiasm who practices excellent diagnostic and problem-solving skills. Commended for his affability productivity, receptiveness, and ability to work with others via strong communication skills. Driven by interests in computation and sustainability.

🎓 EDUCATION

2017 Present · **MASTER OF SCIENCE: COMPUTER SCIENCE**   UNIVERSITY OF GUELPH
Specialization in Human Computer Interaction
90%+ Graduating Average
Research focus on the Digital Divide; the impacts and causes of disparate access to digital systems and literacy within Canada.

2012 2016 · **BACHELOR OF COMPUTING**   UNIVERSITY OF GUELPH
Minor in Economics & Certification in Business Administration
80%+ Graduating Average

💼 EXPERIENCE

2018 Present · **RESEARCH INTERNSHIP**   MITACS ACCELERATE · OTTAWA, ON
Left.io & University of Guelph - The RightMesh Project
Selected as the first intern involved in the $2.2 million Mitacs Accelerate Grant, which funds a collaborative research project between an academic institution and organization. I spend 50% of my time at UoG, and 50% at the Left.io office in Maple Ridge, BC, helping to develop the RightMesh Mobile Ad-Hoc Network.

2017 2018 · **RESEARCH ASSISTANT**   UNIVERSITY OF GUELPH · GUELPH, ON
The eNuk Project
The eNuk web and mobile application is designed to track and analyze changes in climate and environment, and the resulting cultural, physical, and mental health impacts. This project is being developed for and by the Inuit of Rigolet, Labrador.

2017 2018 · **TEACHING ASSISTANT**   UNIVERSITY OF GUELPH · GUELPH, ON
CIS*3750 - System Design & Analysis (2 semesters)
Aided Dr. Gillis & Mr. Rea in holding office hours for student consultations, creating curriculums, slides, and materials, managing email correspondences, designing and marking student assignments and tests, invigilating examinations, and teaching weekly labs.

2018 · **RESEARCH ASSISTANT & DEVELOPER**   MEMORIAL UNIVERSITY · ST JOHNS, NF
The eNuk.eco Webpage
Hired by Dr. Ashlee Cunsolo, director of the Labrador Institute, to build a static website for the eNuk Project. The website was designed and built by hand, and connected to the WordPress Content Management System to allow for editing by non-programmers.

2015 2017 · **FOREMAN & QA OFFICER**   TREELINE REFORESTATION · ENGLEHART, ON
Managed a 10.5 million tree planting contract, with over 60 employees under the MNR. Responsible for a crew of upwards of 16 planters as well as their training, production, tree quality, wellbeing and safety.

2016 · **RESEARCH ASSISTANT**   UNIVERSITY OF GUELPH · GUELPH, ON
ICON: Ideas Congress
ICON is a multidisciplinary course, that challenges students to address social issues by connecting them with community partners. My responsibilities included assisting both teaching in the classroom and performing research on multidisciplinary pedagogy.

| 2017 | **LIFT OPERATOR** | MOUNT WASHINGTON ALPINE RESORT · COMOX VALLEY, BC |

Operated and maintained the patron-lifts at Mount Washington. Welcomed and interacted with and helped patrons safely mount the lifts, operated lift controls, validated tickets, and assisted ski-patrol.

2015 2016 — TEACHING ASSISTANT — UNIVERSITY OF GUELPH · GUELPH, ON

*CIS*2050 - Computers and Society (2 semesters)*
Aided Professors; Dr. Chiu in; holding office hours for student consultations, creating curriculums, slides, and materials, managing email correspondences, marking student assignments and tests and invigilating examinations.

2013 2014 — SILVICULTURIST — TREELINE REFORESTATION · ENGLEHART, ON

Cultivated10 million trees over 2 seasons; personally planting over 300,000 trees. Worked long hours in arduous conditions utilizing; good work ethic, time management, and personal and spatial organization.

2012 — BAR & HOSTEL MANAGER — THE MAGIC SPONGE · KAMPOT, CAMBODIA

Responsible all operations of the Magic Sponge hostel; managed staff-members, dealt with financial and legal matters, cleaned rooms, mixed and served beverages, served food, and oversaw all customer relations.

2009 2011 — CAMP COUNSELLOR, SWIMMING INSTRUCTOR & LIFEGUARD — YMCA CANADA · SUDBURY, ON & BELLEVILLE, ON

Responsible for the wellbeing, safety, happiness, and learning of the children in my classes or camp cabin. At John Island Camp I also taught; canoeing, windsurfing, rock climbing and outdoor living skills.

♥ VOLUNTEER EXPERIENCE

2018 — MASTER OF CEREMONIES — SOCS ORIENTATION WEEK OUTREACH EVENT · UNIVERSITY OF GUELPH, ON

Helped facilitate and MC some of the School of Computer Science Orientation week events.

2018 — COMPUTER SCIENCE EDUCATION SESSION — NORTHERN LIGHTS ACADEMY · RIGOLET, NF

Provided lessons to Inuit children on Scratch, Raspberry Pis, RightMesh wireless mobile mesh networking, and more.

2015 2018 — PUBLIC RELATIONS AND OUTREACH — ONTARIO UNIVERSITIES FAIR · TORONTO, ON

Met with potential students and parents about the School of Computer Science program at UoG.

2015 2018 — FOOD VENDING SUPPORT — HILLSIDE FESTIVAL · GUELPH, ON

Helped organize and restock food vendors with ice, propane, refrigerated food, plates and cutlery at Hillside Festival.

2017 — MENTOR — IMPROVE LIFE HACKATHON · UNIVERSITY OF GUELPH, ON

Helped students with ideation, problem solving, communication, team work, and product development.

2016 — MENTOR — FEEDING 9 BILLION CHALLENGE · UNIVERSITY OF GUELPH, ON

Helped students with ideation, problem solving, communication, team work, and product development.

2015 2016 — LEAD COORDINATOR — GUELPH CODING COMMUNITY · UNIVERSITY OF GUELPH, ON

A student run biweekly tech talk where students meet to share compsci stories, projects, problems and presentations.

2015 2016 — SECRETARY — SOCIETY OF COMPUTER AND INFORMATION SCIENCE · UNIVERSITY OF GUELPH, ON

Voted into Secretary of SOCIS; an organization focussed on running and managing student outreach events.

2010 2011 — VICE PRESIDENT & PRESIDENT — CENTENNIAL SECONDARY SCHOOL'S STUDENT COUNCIL · BELLEVILLE, ON

Voted into executive student council positions by the Centennial Secondary School student body.

⚒ PROJECTS

2017 Present — ENUK
A health and environment monitoring Android and Web application, built for and by the Inuit of Rigolet, Nunatsiavut.

2018 Present — LAWRENCEASSIST
A custom home automation system deployed on a Raspberry Pi using YAML and hass.io.

2018 Present — WILDYBUS
A fully functional, off-grid home built inside a 1991 International School Bus (Instagram: @wildy_bus).

2014 2016 — SUSTAIN-A-BIN
Tech start-up project focused on food waste reduction and consumer behaviour modification.

2015 — ELECTRICKLE
Android application focussed on energy conservation and reduction at the consumer level.

★ HONOURS & AWARDS

2018 YOUNG INNOVATOR AWARD · GUELPH CHAMBER OF COMMERCE AWARDS OF EXCELLENCE   RECIPIENT
Organized by the Guelph Chamber of Commerce, the annual Awards of Excellence is Guelph's premier appreciation event of the year for Innovative community members.

2018 CPHAZ SYMPOSIUM STUDENT SPEED PRESENTATIONS   3RD PLACE · $100
Won 3rd place in the 2 minute Student Presentation Competition at the Centre for Public Health and Zoonoses Annual Symposium, presenting on the benefits of Mobile Mesh Networks for Rural Health.

2018 SCHOOL OF COMPUTER SCIENCE TEACHING ASSISTANT AWARD   NOMINATION
The University of Guelph's, SoCS Teaching Assistant Award of Excellence recognized "the outstanding contribution of a teaching assistant in improving the undergraduate learning environment".

2015 COMPUTER SCIENCE GAMES · SOCIAL COMPUTING COMPETITION   12TH PLACE
Participated in the 2015 Computer Science Games competing against 28 universities across Ontario. I personally represented UoG in Web Design, Database Design placing 4th, and Sports placing 1st.

2015 SCOTIABANK ECOLIVING AWARD   TOP 3 FINALIST
The ElecTrickle team came in the Top 3 nationally in the Student Category, winning funding and a meeting with business mogul Arlene Dickinson, for establishing a product with environmental benefit

2015 HUMAN FACTOR AWARD   RECIPIENT · $200
Awarded to the team that had developed a solution that best took human factors into consideration, including user experience, interface, feedback, emotions and engagement.

2015 NET ZERO HACKATHON   1ST PLACE · $1500
Students were tasked with developing a solution to reduce the effects of climate change. We produced an Android Application to serve as the middleman between energy companies and consumers.

2015 10TH ANNUAL UNIVERSITIES FIGHTING WORLD HUNGER'S PITCH FOR PROGRESS   1ST PLACE · $2000
College of Business and Economics & Centre for Business and Social Entrepreneurship hosted the event, to help start-ups such as Sustain-a-Bin that focussed on social and environmental change.

2015 PLANTER'S CHOICE AWARD · TREELINE REFORESTATION   RECIPIENT
Voted Management Member of the Year after working as a foreman for Treeline Reforestation.

2014 FEEDING 9 BILLION CHALLENGE   1ST PLACE · $1000
Our team of 4 developed an autonomous composting bin, called "Sustain-a-Bin"which collected data helps the user quantify their waste during the F9B Challenge to reduce Food Insecurity on campus.

2007 **2009** TOP SKI RACER & JONATHON SWALLOW AWARDS - BATAWA SKI TEAM   RECIPIENT
Received Top Racer (2007-2009) and the Jonathon Swallow (2009) Awards for my success and leadership respectively on the alpine ski racing team.

2007 CANADA WIDE SCIENCE FAIR   HONOURS
Attended the Canada Wide Science Fair in 2007, representing my school board with 2 other team.

$ SCHOLARSHIPS & GRANTS

2017 **2019** GUELPH GRADUATE TUITION SCHOLARSHIP $18,000
The GTS is awarded to a single student per year, nominated by their college to recruit top students within their field.

2018 PHYSICAL SCIENCE & ENGINEERING EDUCATION RESEARCH CENTRE TRAVEL GRANT $1,000
Awarded to fund my attendance and presentation at the People, Places and Public Engagement Conference.

2018 SCHOOL OF COMPUTER SCIENCE TRAVEL GRANT $500
The SoCS Travel grant is awarded to student for conferences relating to the field of computer science.

2018 NATIONAL SCIENTIFIC TRAINING PROGRAM GRANT $2,804.45
Sponsored by Polar Knowledge Canada (POLAR) to foster science and technology in Canada's North.

2015 ELEVATOR PROJECT: GUELPH'S COMMUNITY LAUNCHPAD $1,500
Sustain-a-Bin was within the top 15 most interesting projects, voted by the community of Guelph.

PUBLICATIONS

2019 THE CIS*3750 SYSTEMS ANALYSIS & DESIGN IN APPLICATIONS STUDENT MANUAL   NON-REFEREED
Gillis, D., & Durish, N.

2018 POLAR KNOWLEDGE: INAUGURAL EDITION · ARTICLE   REFEREED
The eNuk Environmental and Health Monitoring Program
Kipp, A., Cunsolo, A., Gillis, D., Sawatzky, A., Cook, O., Durish N., Shiwak I., Flowers C., Rigolet Inuit Community Government & Wood M.

2018 INTERNATIONAL JOURNAL OF CIRCUMPOLAR HEALTH · INVITED ARTICLE   PENDING ACCEPTANCE · REFEREED
Climate Change, Wellness & The Digital Divide in the Circumpolar North.
Durish, N., Ernst, J. & Gillis, D.

PRESENTATIONS

WORKSHOPS

2018 INDIGENOUS MAPPING CONFERENCE · INVITED   MONTREAL, QB
Ideation Process, Identifying Problems RightMesh Can Solve I & II.
Gillis, D., Rourke, K., & Durish, N

2018 COMMUNITY-BASED ENVIRONMENTAL MONITORING WORKSHOP · INVITED   IQALUIT, NU
Developing an Inuit-led Community Health and Environment Monitoring System using MANETS in Rigolet, Nunatsiavut.
Durish, N. & Gillis, D.

ORAL PRESENTATIONS

2019 LABRADOR RESEARCH FORUM   PENDING · HAPPY VALLEY-GOOSE BAY, NF
Supporting Community-Based Monitoring With Technology In The Circumpolar North.
Gillis, D., Durish, N., Rourke, K., Asch, M., Knarr, J., Kipp, A., Sawatzky, A., Middleton, J., Borish, D., Bell, I., Cunsolo, A., Shiwak, I., Flowers, C., Wood, M. & Harper, S.

Bridging the Digital Divide in the Circumpolar North
Durish, N., Gillis, D., Seymour, F., Rourke, K., Asch, M., Raturi, S., Hughes, B., Flowers, C., Shiwak, I., Wood, M.& Ernst, J.

2019 WESTERN STUDENT RESEARCH CONFERENCE   PENDING · LONDON, ON
Bridging the Digital Divide with Mobile Ad Hoc Networks in the Circumpolar North.
Asch, M., Rourke, K., Seymour, F., Durish, N., Flowers, C., Wood, M., Gillis, D. & Ernst, J.

2018 ARCTICNET   OTTAWA, ON
Supporting Community-Based Monitoring in the Circumpolar North.
Gillis, D. & Durish, N.

2018 PEOPLE, PLACES AND PUBLIC ENGAGEMENT   ST, JOHNS, NL
Bridging the Digital Divide and Improving Community-Based Monitoring Programs in the Circumpolar North.
Durish, N., Seymour, F., Rourke, K., Raturi, S., Hughes, B., Harper S., Cunsolo A., Flowers F., Shiwak I., Wood M., Rigolet Inuit Community Government, Gillis D. & Ernst J.

How Community Engaged Computer Science Can Change the World
Gillis, D., Durish, N., Cook, O., Seymour, F., Gascho, J., Fontanna J., Houlding P., & Williamson D.

2018 MITACS FUNDING ANNOUNCEMENT EVENT   MAPLE RIDGE, BC
Acknowledging the effects of Mitacs funding on Student Interns
Durish, N.

2018 GOV-ZERO SUMMIT   INVITATION · TAIPEI, TAIWAN
Community Engaged Computer Science: Lessons Learned in the Pursuit of Social Justice
Durish, N.& Gillis, D.

2018 INDIGENOUS MAPPING CONFERENCE   OTTAWA, ON
Using Mesh Technology to Support Climate Change Monitoring.
Durish, N., Rourke, K. & Gillis, D.

2018 CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM   GUELPH, ON
Potential Health Impacts of the Digital Divide.
Durish, N., Seymour, P., Cook, O., Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government., Cunsolo, A. & Gillis, D.

2018 SPRING IT CONFERENCE · INVITED KEYNOTE   GUELPH, ON
Bridging the Digital Divide in the Circumpolar North
Durish, N. & Gillis, D.

2017	**SPRING ACADEMIC OPEN HOUSE · INVITED**	GUELPH, ON

Design: The Good, The Bad and The Ugly
Durish, N. & Gillis, D.

2017	**ARCTICNET**	QUEBEC-CITY, QB

Improving the Connectivity of Rigolet Using the Inuit-led eNuk Application and Wireless Mesh Technologies
Ernst, J., *Seymour, P., *Durish, N., *Cook, O., Cunsolo, A., Sawatzky, A, Flowers, C, Shiwak, I, Rigolet Inuit Community Government, Harper, SL, and Gillis, D

2016	**GUELPH CODING COMMUNITY**	GUELPH, ON

A Strategic Analysis of Iterative Pareto-Nash Misaligned Games: How Computer Scientists Navigate Trust.
Durish, N.

2016	**COMPOST COUNCIL OF CANADA; COMPOST CONGRESS · INVITED**	GUELPH, ON

Student Innovations: Sustain-a-Bin and BioCharzard
Durish, N. & Smith, C.

POSTER PRESENTATIONS

2018	**ARCTICNET**	OTTAWA, ON

Bridging the Digital Divide to Support Community-based Monitoring in the Circumpolar North
Durish, N., Gillis, D., Seymour, F., Rourke, K., Asch, M., Raturi, S., Hughes, B., Flowers, C., Shiwak, I., Wood, M. & Ernst, J.

2018	**CEPS UNDERGRADUATE POSTER SESSION**	GUELPH, ON

Evaluating the Digital Divide in Canada
Houlding, P., Durish, N., & Gillis, D.

Developing an Instant Messaging Platform Beyond the Digital Divide
Seymour, F., Raturi, S., Durish, N., Shiwak, I., Flowers, C., Ernst J., Gillis D.

2018	**CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM**	GUELPH, ON

A Community-led Approach to Contextualize Gamification
Durish, N., Seymour, P., Cook, O., *Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government, Ernst J., Cunsolo A., Harper S. & Gillis D.

Connecting Remote Northern Communities with Offline Mobile Applications
Seymour, F., Raturi, S., Durish, N., Cook, O., Sawatzky, A., Shiwak I., Flowers C., Rigolet Inuit Community Government, Harper S., Cunsolo A., Gillis D. & Ernst J.

2017	**SOCS GRADUATE POSTER SESSION**	GUELPH, ON

Comparing broadband speeds between Indigenous and Non-Indigenous communities
Durish, N.

2017	**ARCTICNET**	QUEBEC-CITY, QB

The eNuk Health and Environmental Monitoring System; Improving User Engagement through Social Gaming Elements
Durish, N., Gillis, D., Cook, O., Cunsolo, A., Sawatzky, A., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government, and Harper, SL

Leveraging Mesh Networks to Design Systems that Connect Remote Northern Communities.
Seymour, PF., Durish, N., Cook, O., Cunsolo, A., Harper, SL., Sawatzky, A., Shiwak, I., Flowers, C., Rigolet Inuit Community Government, and Ernst, J. & Gillis, D.

Improving the Connectivity of Rigolet Using the Inuit-led eNuk App and Wireless Mesh Technologies
Ernst, J., Seymour, PF., Durish, N., Cook, O., Cunsolo, A., Sawatzky, A., Flowers, C., Shiwak, I., Rigolet Inuit Community Government, Harper, SL. & Gillis, D.

Supporting Wildlife Stewardship and Conservation through a Digital Platform for Knowledge Co-Production.
Andrachuk, M., Cunsolo, A., Sawatzky, A., Snook, J., Gillis, D., Durish, N., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government & Harper, SL.

MEDIA LINKS*

2018	<u>MAPLE RIDGE TECH COMPANY ANNOUNCES BRAIN GAIN</u>	MAPLE RIDGE NEWS
2018	<u>U OF G COMPUTER SCIENTISTS PART OF $2.13 MILLION PROJECT TO IMPROVE DATA SHARING</u>	UOG NEWS
2018	<u>THE SCHOOL OF COMPUTER SCIENCE AND LEFT TO COLLABORATE ON $2.13 MILLION PROJECT TO IMPROVE...</u>	FIRST MILE
2018	<u>LOOK WHO WON A BUSINESS AWARD!</u>	GUELPH TODAY
2018	<u>SOCS GRAD STUDENT RECEIVES YOUNG INNOVATOR AWARD</u>	SOCS NEWS
2018	<u>YOUNG INNOVATOR FINALISTS</u> - VIDEO	GUELPH CHAMBER OF COMMERCE