Peter Quinn peterquinn.ca

Languages

English and French (Bilingual), German (basic)

Education

Bachelor of Engineering, Ho	2015-present				
McGill University, Montréa	I, QC				
• GPA: 3.90			•	Dean's Honour List	2016, 2017
Brodeur-Drummond Sc	holarship	2017	•	Faculty of Engineering Scholarship	2017
 Motorola Foundation S 	cholarship	2016	•	J. W. McConnell Scholarship	2015
Diplôme d'Études Collégial John Abbott College, Sainte Honour Roll (Top 10% o Dean's List (Top 35 stud	2013-2015				
David Burt Memorial Sc	2015				
Credited Marine Biolog	2015				
High School Diploma Westwood Senior High School, Hudson, QC • Honour Roll (Above 80% average)					2013
McGill Science Award (I	2013				
Governor General Awar	2013				

Research Experience

Research Internship in Science and Engineering (DAAD RISE)

May-Aug 2017

Technical University of Kaiserslautern, Kaiserslautern, Germany

- Worked on the development of novel microwave antenna designs with Prof. Marco Rahm's research group for metamaterials and terahertz technology under the supervision of Ph.D. student Zinching Dang
- Simulated and optimized antenna designs in CST Microwave Studio, then manufactured designed antennas using photolithography in a clean room
- Constructed an antenna measurement setup and programmed the instrumentation using Labview to automate measurements

Summer Undergraduate Research in Engineering (SURE)

May-Aug 2016

McGill University, Montreal, QC

- Conducted a research project under the supervision of Prof. Andrew Kirk and Dr. Philip J. Roche on a new system for rapidly replicating DNA using lasers and gold nanorods
- Worked independently on tasks and objectives discussed at weekly meetings
- Presented a research poster to members of the university, alumni and guests at a poster presentation

Research Project Jan-May 2015

McGill University, Montreal, QC

- Research project conducted in McGill chemistry labs under Professor Amy S. Blum and graduate student Julia Del Re
 on the self-assembly of gold nanoparticles and protein scaffolds
- Report on project received 1st place in CIC Montreal Local Section Chemistry Research Project Contest

Work Experience

Hardware Design Intern May-Aug 2018

Matrox, Dorval, QC

- Performed electrical qualification and troubleshooting of hardware designs for upcoming camera products
- Documented test results and compared with specification to ensure that the designs were working as intended

School Scheduler May-Aug 2015

Dash Computer Solutions, Montréal, QC

- Used company software to create and manage class schedules for Montreal high schools
- Optimized schedules based on constraints supplied by school

Private Tutor 2012-2015

- Worked with grade 7-11 students to improve math and science skills
- Communicated with parents to schedule sessions and to report progress and areas of focus

John Abbott College Physics Tutor

2014-2015

John Abbott College, Sainte-Anne-de-Bellevue, QC

Design Team Experience

Member of Power Sub-Team

Sept 2015 – May 2018

Autonomous Underwater Vehicle (AUV) Project, McGill Robotics, McGill University

- Design and layout of custom microcontroller PCB, design of a PCB to control and power a grabber arm
- Collaborating with other members/sections to ensure that all the systems/PCBs will be compatible

Projects

Starcraft II Reinforcement Learning AI

Summer 2018 -

- Interfaced the PySC2 Starcraft II learning environment produced by Deepmind with the Keras-RL library
- Currently evaluating the effectiveness of various learning models at completing distinct subtasks of the game

FPGA Game Fall 2017

Programmed an FPGA to allow a user to play a simplified game of black jack against a computer controlled dealer

Autonomous Robot Winter 2016

- Constructed a robot using a Lego Mindstorms kit running the Lejos Java library that was capable of autonomously localizing, navigating, picking up and shooting balls
- Documented all stages of development and testing in a group of six students

Lab Safety Courses

McGill University, Montreal, QC

• Laser Safety 2016, exp. 2019

Workplace Hazardous Materials Information System (W.H.M.I.S.)

2016, exp. 2019

Technical Skills

Programming

- Python, Java, MATLAB, C/C++, HTML/CSS, Labview
- Git, Kanban, Slack

Volunteer Experience

Student Life Work 2011-2013

- Going to an underprivileged elementary school in Verdun, spending time with the kids and serving them lunch
- Workshops encouraging younger students to get involved in Student Life

Activities and Interests

•	Member of McGill Robotics	2015-2018
•	Member of Academic Journal Club at John Abbott College	2015
•	Member of Squash Club at John Abbott College	2014-2015
•	Member of Kayak Club at of John Abbott College	2015
•	Member of Westwood Senior/Junior High School Band and Jazz Band	2008-2013
•	Member of Student Life at Westwood High School	2012-2013