


LIAM GRITTERS

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EDUCATION

Bachelor of Mechanical Engineering | Carleton University

SEPTEMBER 2014 – PRESENT

- Expected graduation: May 2019
- C.C. Gibson Scholarship 2015
- Fourth Year Standing, 9.30/12.0 GPA



EXPERIENCE

Junior Robotics Engineer | Provectus Robotics Solutions Inc.

MAY 2017 – PRESENT

- Developed an autonomous robot simulation in Webots Simulator with a custom controller publishing data to a UDP Multicast Network
- Designed and implemented a convolutional neural network to detect pedestrians and vehicles in a video stream, further enhancing spatial and object awareness of an autonomous robot
- Wrote Bash Scripts to improve installation and archiving of robotic control software
- Redesigned an autonomous robot's electrical layout to improve the accessibility and comprehension of the system

Climatic and Vibration Engineering Co-op Student | Department of National Defence

MAY 2016 – AUGUST 2016

- Built and implemented thermocouple and pressure sensors to retrieve data during the experimental phase of thermal tests
- Analyzed and interpreted data from lab and field experiments, and clearly delivered the information in a formal lab report
- Collaborated with military personnel and other engineering sections to develop an appropriate testing procedure for climatic and vibration experiments on military equipment



SKILLS

- Experienced in C/C++, MATLAB programming
- Proficient in CREO Parametric 3D modelling
- Familiar with Linux, Bash Scripting and Git
- Skilled in Microsoft Office Suite
- Excellent interpersonal skills
- Comprehensive oral and written abilities



PROJECTS

- **CRAM:** developing and implementing an online library of tutorials for university courses in Canada to help students gain a better understanding of their class material
- **Laptop Stand:** Designed and modelled a bed-side laptop and book stand with multiple adjustable dynamic joints for a comfortable seating position



ACTIVITIES

- Carleton University Robotics Club
- Carleton University Development Initiative
- Intramural Basketball and Volleyball
- Piano