Thomas Riley

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Honours Electrical Engineering

ID# 20653444

Education

- **University of Waterloo** — Waterloo, ON
  Bachelor of Applied Science Candidate, Electrical Engineering — *Sep. 2016 - Present*
  - Cumulative GPA: **3.98/4**
  - Academic Class Representative (Winter 2017)
  - Relevant courses completed: Linear Circuits (99%), Fundamentals of Programming (100%).
  - Relevant courses in progress: Digital Circuits and Systems, Engineering Design with Embedded Systems

- **Penetanguishene Secondary School** — Penetanguishene, ON
  Ontario Secondary School Diploma — *2012 - 2016*
  - Graduated at the top of class, **97%** average.
  - Relevant courses: Technological Design, Computer Science

Relevant Experience

- **Midnight Sun Solar Rayce Car Team** — Waterloo, On
  Hardware Electrical Team Member — *Sept. 2016 - Present*
  - Worked as part of a team working to design a solar race car to compete in the American and World Solar Challenges.
  - Co-designed a motor precharge circuit to limit the inrush current to the motor controller, as well as a model of battery module to be implemented in battery enclosure.
  - Tested motor precharge circuit using lab test equipment including oscilloscope, digital multimeter, and power supply.

- **Foodland** — Penetanguishene, On
  Deli Clerk — *July 2016 - Sept. 2016*
  - Communicated effectively with customers taking custom deli orders.
  - Demonstrated responsibility through running the department alone after minimal training.

- **McDonalds Canada** — Midland, On
  Crew Member — *May 2014 - Nov. 2015*
  - Reduced average order time from 130 seconds to 56 seconds by coordinating junior crew effectively.
  - Implemented and maintained a posted reference sheet of the storage times of various fresh ingredients, improving both the safety and quality of our food as well as increasing the efficiency of food preparation.

- **Little Caesars Co.** — Midland, On
  Team Member — *Sept. 2013 - May 2014*
  - Utilized multitasking in a fast paced environment by both taking and preparing food orders.
  - Demonstrated a high degree of responsibility through running the restaurant with minimal supervision.

Awards

President's Scholarship of Distinction	2016
The Governor General's Academic Medal	2016
Prince Philip Scholarship	2016
Principal's Award	2016
National Biology Scholar	2016
Frey Science Award	2016
Euclid Contest Distinction	2016
Character Recognition Award	2016

Skills

Languages: C++, LaTeX, Java (including Android), Bash, HTML/CSS/Javascript, some Python, Ruby, Liquid

Operating Systems: Linux (Debian, Fedora, Arch Linux) , Windows

Applications: emacs, LaTeX, MS Office, MS Excel some Altium Designer

Lab Skills: Digital/Analog Oscilloscopes, Function Generators, Altimeters, Power Supplies, Soldering

Miscellaneous: Strong written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, good teams skills

Interests

Sports: Pool (8-ball, 9-ball), fast-pitch softball

Electronics: Currently learning about RF techniques in order to build a simple AM radio. Also working towards my Amateur Radio Licence.

Computers: Currently using a Fedora build on my main computer as well as Arch Linux. Enjoy learning more about bash scripting and the Linux work flow.

Reading: I am currently reading a text on middle-eastern history since the dawn of Islam, as well as various electronics texts.