

# TREVOR SMITH

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## QUALIFICATIONS:

### Languages:

- C Language - Primary language for developing in first and second year. Used to develop advanced applications, create libraries, and several types of data structures
- Java – Developed with a variety of libraries, applications include stock market simulator to a virtual breadboard
- Python - Used in collaboration with the OpenCV library for image processing, manipulation, and recognition

### Operating Systems:

- Windows - Primary operating system
- Linux - Experience developing C on Debian, Python on Ubuntu

### Hardware:

- Arduino, Raspberry Pi, and FPGA boards

### Software:

- Docker - Used to create separate containers for running specific applications into separate containers
- Jekyll - Used to create HTML files from Markdown, optimized development of static website
- Git - Extensively used for several applications with different development teams

## EDUCATION

**Bachelor of Engineering, Engineering Systems and Computing (Co-op), University of Guelph** 2016 – Present

- Academic accomplishments: Dean's Honour List Semesters One and Two
- Relevant courses: Introduction to Programming (Achieved 100%), Intermediate Programming, Data Structures, Object Oriented Programming, Digital Systems Design Using Descriptive Language, Differential Equations
- Currently holding Officer position for University of Guelph Engineering Society, responsible for managing merchandise orders and sales

**Ontario Secondary School Diploma Centennial CVI, Guelph** 2012-2016

- Honour roll grades 9, 10, 11, and 12
- Competed in several programming competitions
- Competed in DECA – an international business competition – competed internationally three years
  - Written communication skills developed through business proposals, critical thinking and communication skills developed through presentation and question periods
- Leader of school's tech crew
  - Lead group of 10+ students, critical thinking through solving audio/video problems during productions

## RELEVANT EXPERIENCE

**Lab Assistant, Robotics Institute @ Guelph, Guelph** May 2017 – August 2017

- Efficiently collaborated by developing, testing, and sharing code with team members using Docker and Git
- Learned Python, JavaScript, and Markdown by developing and maintaining the lab website
- Developed image manipulation applications by using OpenCV for image processing and image recognition
- Documented code using industry standard conventions for future team members convenience
- Used proper software development cycle resulting in the project being completed within the desired timeframe
- Developed strong work ethic by creating personal goals and deadlines, allowing for minimal supervision

## ACADEMIC PROJECTS

### Engineering and Design I, University of Guelph, Guelph, Ontario

2016

- Leadership position in developing Design I project – Teddy Bear Wheelchair
- Used Arduino to program motors and operate car independently of external control
- Developed circuit using breadboard, capacitors, and resistors to operate the motors of the vehicle
- Debugged issues with motors and circuit through rigorous testing, leading to a successful run
- Assisted in development of chassis and launching mechanism
- Evaluated design process and product through written report, allowing me to identify future areas of improvement

## EXTRACURRICULAR INVOLVEMENT

### Business Lead on FIRST Robotics, Centennial CVI, Guelph

September 2014- June 2016

- Managed team of 40+ towards achieving and surpassing all financial goals, collecting over \$10,000
- Contacted and maintained relationships with sponsors through personalized correspondence and regular newsletters, creating strong relationships with the team
- Recorded transactions and prepared financial statements to comply with FIRST regulations
- Created business plan and sponsorship package for recruitment of sponsors, allowing the team to compete
- Participated in bi-weekly meetings to update the team on new developments

## AWARDS/SCHOLARSHIPS

### Centennial CVI

#### Proficiency in Business and Computer Studies

2014

#### Proficiency in Business and Computer Studies

2015

#### Spartan Letter

2016

- Awarded to select students for extracurricular and school involvement

### University of Guelph

#### Entrance Scholarship

2016

- Awarded for achieving an average of 90%+ for engineering

#### International Brotherhood of Electrical Workers (Local Union 804) Scholarship

2017

- Awarded for achieving highest average in Engineering Systems and Computing in semester two

References Available Upon Request