Graham Smith

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PROFILE

Self-taught programmer and aspiring front-end web developer passionate about solving complex problems. Analytical problem solver and highly self-motivated learner. Experienced in a wide variety of programming languages, frameworks, and development tools. Familiar with javascript, React.js, node.js, HTML, CSS, and Electron.

EDUCATION

University of Waterloo 2014–2019
BASc in Mechanical Engineering, Mechatronics Option, Management Sciences Option

PROFESSIONAL EXPERIENCE

Postability Inc., Cambridge, ON May 2019–Present
Post-Processor Developer
Postability is a software development firm focused on the development of CNC post processors for Mastercam, which are used in the programming of computer-controlled machine tools.

- Customized post processor software for many different CNC machine configurations and control languages
- Developed software tools in Electron to allow the use of encrypted license files on post software
- Designed an encryption algorithm optimized for maximum security given the specific project requirements

Clearpath Robotics Inc., Waterloo, ON Sep–Dec 2018
Mechanical Design Co-op, Research Solutions Division
Clearpath Robotics manufactures and sells indoor and outdoor mobile robotics platforms. They also offer custom robot integration and engineering services.

- Designed parts for custom robot platforms and created drawings using GD&T principles
- Developed test plans for cutting edge components for integration on custom robotic platforms
- Collaborated with customers to ensure solutions would fulfill their needs

Dyson Ltd., Malmesbury, United Kingdom Jan–Apr 2018
RDD Intern, Sensors and Power Delivery team - Floorcare Category
Dyson Ltd. is a global technology company responsible for premium household and industrial appliances.

- Tested new and unique technologies to determine suitability for use in Dyson vacuum products
- Designed complex injection-moulded parts for next generation robot vacuum products
- Supported design engineers to complete project deliverables in a fast-paced environment

Avidbots Corp., Waterloo, ON Sep–Dec 2016; May–Aug 2017
Mechanical Design Co-Op
Avidbots designs and manufactures industrial autonomous connected floor-scrubbing robots.

- Built and tested prototypes for the next generation of autonomous floor-scrubbing machines
- Designed models and drafted drawings in Solidworks for both production and prototype parts
- Represented the company in Singapore and Australia to support customers and solve problems
- Streamlined manufacturing processes in collaboration with supply chain and production staff

INDEPENDENT PROJECTS: Computer-controlled laser engraver, PID-controlled robot arm
CO-CURRICULAR ACTIVITIES: FIRST Robotics (Mentor / Coach, and Robot Inspector)
INTERESTS: Sports, video games, camping, hiking, cooking, baking, cycling and snowboarding