

# GRAHAM SMITH

Engineering Graduate and Software Developer

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## PROFILE

Software developer and aspiring front-end web developer passionate about tackling complex challenges. Analytical problem solver and highly self-motivated learner. Familiar with a wide variety of programming languages, frameworks, and development tools.

### *Skills Inventory*

Javascript, React.JS, HTML, CSS, SQL, Node.JS

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## PROFESSIONAL EXPERIENCE

### **Postability Inc., Cambridge, ON**

May 2019–Present

#### *Software Developer*

- Deployed post processor software in the proprietary Mastercam MP language to be used with CNC machines
- Developed several software development tools now used daily by the entire development team in order to speed up post development and make administration tasks more efficient
- Designed an encryption algorithm in the MP language and optimized it for security through extensive planning and penetration testing
- Served hundreds of clients worldwide by writing software tailored to meet their needs

### **Clearpath Robotics Inc., Waterloo, ON**

Sep–Dec 2018

#### *Mechanical Design Co-op, Research Solutions Division*

- Designed parts for custom robot platforms and created drawings using GD&T principles
- Developed test plans for cutting edge components to integrate with custom robotic platforms
- Collaborated closely with customers regularly to understand and meet their needs through bespoke solutions

### **Dyson Ltd., Malmesbury, United Kingdom**

Jan–Apr 2018

#### *Research, Design and Development Intern, Sensors and Power Delivery team - Floorcare*

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

### **Electron License Application**

- Uses Electron, Javascript, HTML, and CSS to support an internal software tool for Postability
  - Encrypts data and outputs a file to be read by a post processor to control licensing restrictions
  - Manages input from users to ensure the validity of entered data, and warn users of potential mistakes
  - Streamlines the user's workflow by reducing the amount of manual data processing required, which helps to prevent user error
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## EDUCATION

University of Waterloo

2014–2019

**Bachelor of Applied Science in Mechanical Engineering**, Mechatronics Option, Management Sciences Option