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

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

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

EDUCATION

University of Waterloo 2014–2019
Bachelor of Applied Science in Mechanical Engineering, Mechatronics Option, Management Sciences Option