

Gary Barretto

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Relevant Skills

Coursework

Data Structures & Algorithms,
Software Development,
Statistics, Machine Learning

Languages

C, C++, Java, Python, Javascript,
ES6, SQL, HTML/CSS, Matlab

Technologies

React, Git, REST, Bootstrap,
Express, MongoDB, Github,
NodeJS

Relevant Work Experience

Engineering Co-op Student

May 2017 - April 2018

Parker Canada, Milton, ON

- Supported Sales and Engineering Personnel with professional engineering drawings for parts exceeding \$5000
- Liaised with Technical Standards & Safety Authority assisting with Canadian Registration Number(CRN) submission and approvals to increase product market share
- Used PLC programming to automate cylinder testing for product managers and their product lines

Project Work

- **Precision Agriculture System (Engineering Captstone):**
 - **Placed First among McMaster's Computing and Software Department**
 - Designed and developed a smart farming prototype that collects, validates and tabulates farm data which is then presented on a clean and clear user interface
 - Major responsibilities included creating a temporary storage for farm data to be sent to the cloud as well as design and implement the user interface (**Used Python, SQLite, and React**)
- **Pacemaker:**
 - Worked on building a Pacemaker that would output pulses to provide electrical stimulation to the heart (pacing) and monitor the heart rate (ECG) (**Received A**)
 - Demonstrated **written communication skills** along with **teamwork skills** through writing the documentation which included the core software development cycle concepts (Requirements, Design, Verification and Validation etc) in a team of seven
- **PWM Fan Controller:**
 - Integration of an STM microcontroller and temperature sensor to automate a fan based on a defined temperature that users control. (**Received A+**) (**Coded in C**)

EDUCATION

Bachelor of Engineering, Mechatronics (Co-op)

McMaster University, Hamilton, ON

Completed April 2019