George Manuel
Final Year Software Engineering Student

Software Engineering student specializing in Embedded Systems

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WORK EXPERIENCE

Engineering Intern
Ontario Power Generation

05/2018 – 08/2019   Bowmanville, Ontario

Achievements/Tasks

- Developed software to oversee all Preventative Maintenance work orders and track their progress as well as their risk of being performed past their due date.
- Developed software that stream-lines work authorization across Darlington Nuclear Generating Station. Estimated to save $2 Million per year in maintenance costs.
- Created software that allows maintenance crews to find work when a crew is under scheduled at any point in time.
- Helped to develop software that increases efficiencies in planning work across Darlington station. When first presented to senior management, initial reaction was to implement the program across all OPG stations.
- Developed software to increase efficiency when planning unit outages. Cut time of preparation from 2 months to 10 minutes.
- Recognized and rewarded the Values in Actions award by senior management for efforts and impact on efficiency throughout entire station on 3 separate occasions.

Control Systems Developer
MAC Formula Electric

09/2016 – 04/2018   Hamilton, Ontario

Formula Electric team for McMaster University

Achievements/Tasks

- Developed accumulator model ring for 600V Formula Electric vehicle.
- Modeled and simulated the on board Battery Management Unit as well as performed performed all testing of system.

Summer Student - Major Projects
Durham District School Board

05/2017 – 08/2017   Whitby, Ontario

Achievements/Tasks

- Proposed new renovations for classrooms, washrooms and play areas in public schools within the Durham Region.
- Designed new accessibility ramp for Bolton C. Falby Public School in Ajax, Ontairo.
- Updated floor and site plans for over 115 schools in Durham.

SKILLS

Java Python C C++ Git

MATLAB/Simulink Go SQL Eclipse

Visual Studio VBA MS Access MS Excel

PROJECTS

Open Seat Application (09/2019 – Present)
- System that is able to give a seating map of a large room and can automatically determine which seats are occupied. This would allow a user in a busy area to quickly find a place to sit.

Doggy Detective (02/2018 – 04/2018)
- Application that allows a user to take a picture of a dog and the program will be able to correctly identify the breed of the dog.

TourGuide (02/2017 – 04/2017)
- Application that allows a user to select from a list of categorical locations and have a shortest path"tour" beginning and ending in the original location they start at while still seeing all the places the user wants to see.

SwivelCam (11/2016 – 11/2016)
- A self-adjusting camera mount that uses facial detection to assure the users face is always in the center of the image.
- Winner of Best Device Privacy Hack award at Electric City Hacks

EDUCATION

Bachelor of Software Engineering
McMaster University

08/2015 – 04/2020   Hamilton, Ontario

Courses

- Embedded Systems
- Data Structures & Algorithms
- Computer Networks & Security
- Predictive & Intelligent Control
- Scientific Computation
- Databases