Dan Duran

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Summary of Qualifications

- Six months of experience in software development for embedded systems at Watonomous.
- Proficient in C++, Java, and Python from programming in school courses and online learning.
- Extensive leadership and teamwork skills from working on a team for Watonomous and group hackathon projects.
- Effective problem solving and self-learning abilities through self-teaching various programming languages & tools for side projects.

Experience

Watonomous - *Sensor Interfacing Core Member*

Sept 2019 - PRESENT

- Wrote and debugged C++ code in ROS to streamline sensor startup.
- Focused on LiDAR enhancements for the Perception team.
- Assisted with programming GPS/IMU, camera, and radar network scalability.
- Learned various development tools such as Linux, Vim, Git, Confluence, and JIRA.

Kitchener Collegiate Institute - *Coding Instructor*

Dec 2018 - June 2019

- Taught students Python syntax and computer science basics on a weekly basis.
- Presented hands-on workshops on cryptography and networking principles.

Let's Talk Science - *Workshop Developer*

Oct 2018 - Feb 2019

- Co-created a classroom workshop focused on environmental factors in long-distance space travel.
- Designed various Python programs for micro:bit sensors to collect data and compare with the International Space Station.
- Wrote an in-depth report analyzing the procedure and complexity of the workshop.

Projects

danduran.dev - October 2019 - Present

- Personal website built with HTML and CSS via help from the Jekyll framework, hosted with Github Pages. More projects can be found here.

Listen To Something New - September 2019

- Automated the process of searching for new music by creating a Python web scraper bot to regularly create a new playlist from internet forums.

Disposal Sorting - March 2018

- Created an application which uses Tensorflow to categorize captured photos into various waste categories for disposal at MasseyHacks IV.

Education

Candidate for Bachelor of Computer Science, Honours Computer Science, University of Waterloo, Waterloo, Ontario, September 2019 - Present