Trevor Sherrard

Contact Me

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Summary

I am a fifth year electrical engineering student at Rochester Institute of Technology. I am currently seeking a full time position starting Fall 2020.

Work experience

May 2018 – August 2019

Calvary Robotics

Controls Software Co-Op

Architected, implemented, and tested an embedded, OPC UA based, industrial internet of things (IIoT) performance tracking software platform for industrial manufacturing machines. Aided in the development of Keyence, Cognex and OpenCV based vision inspection applications. Implemented Ignition Designer SCADA applications.

January 2018 – February 2019

R.I.T

ROS Software Architect

Responsible for creating a distributed software architecture using robot operating system for a multi-agent intelligent material handling system grant project. Participated in gated reviews of implemented software.

May 2017 – December 2017

D3 Engineering

Embedded Software Co-Op

Developed board support software and various device drivers for multicore embedded advanced driver assistance systems. Prototyped various image processing pipelines using OpenCV. Designed and performed various tests to verify RTOS software functionality.

January 2017 – May 2017

Alstom Signaling

Train Signaling Engineering Co-Op

Responsible for writing installation and cut-over plans based off of electrical schematics for train control rooms.

Education

2015 – 2020 **Rochester Institute of Technology**
B.S Electrical Engineering

Robotics Projects

2018 **Kudos (http://bit.ly/Kudos2018)**
A differential drive robot making use of a distributed ROS architecture and an exploratory SLAM algorithm to map out unknown spaces.

2016 **ToolID (http://bit.ly/ToolID2016)**
Automatic tool identification for the computer science house woodshop.

Computer Vision Projects

2018 **RIT SPEX HAB Horizon Detection (http://bit.ly/RITHAB2018)**
A CLI application using OpenCV to detect the earth's horizon in images taken from a high altitude balloon. This code ran on a Raspberry Pi at 60,000+ feet.

2015 **CSH Augmented Reality Logo (http://bit.ly/ARCSH)**
An Augmented Reality project for the Computer Science House at RIT.

Technical Skills

Advanced level	C, C++, ROS, OpenCV, Python, Machine Vision
Intermediate level	SLAM, LiDAR, OPC UA, Git, PLC Programming, IIOT, Ignition Platform, Embedded Systems
Basic level	RTOS, LaTeX, Verilog, mmWave Radar, Kuka, Imaging Science, MATLAB

Leadership

2018 **Computer Science House E-board**
Served as the CSH House History director for the 2018-2019 academic year.