Trevor Sherrard

Contact Me

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Summary

I am a roboticist, and machine vision enthusiast. I am a fourth year electrical engineering student at Rochester Institute of Technology. I am currently seeking a Co-Op for Summer 2018.

Work experience

May 2017 – December 2017

D3 Engineering

Software Engineering Co-Op

Developed software for embedded advanced driver assistance systems. Worked with various embedded developers on various imaging systems. Performed rework on various boards.

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 in the Metropolitan Atlanta Rapid Transit Authority system.

September 2016 – December 2016

RIT Research Computing

Assistant Systems Administrator

Responsible for assisting in the upkeep of RIT research computing infrastructure. Helped design workflow for faculty and graduate research students using Torch, Caffe and Cuda.

Education

2015 – Present **Rochester Institute of Technology**
B.S Electrical Engineering; Robotics
Computer Science House

2014 – 2015 **Cuyahoga Community College**
Community College
Physics Club

Robotics Projects

2014 **SortME (http://www.trevorsherrard.com/SortME.html)**
My Computer Vision Robot Platform

2015 **RoveME (http://www.trevorsherrard.com/RoveME.html)**
My Large scale, built from scratch ROS robot. Built from a basic andymark differential drive robot chasis, RoveME is my personal robotics testbed.

2015 **ToolID (http://www.trevorsherrard.com/ToolID.html)**
Automatic tool identification for the computer science house woodshop.

Computer Vision Projects

2014 **HAAR Training Tutorial Web Page (http://www.trevorsherrard.com/Haar_training.html)**
A tutorial I wrote on how to train HAAR classifiers using OpenCV. It covers everything from sample preparation to training itself.

2015 **Mobile HAAR tester application (http://www.trevorsherrard.com/ComputerVision.html)**
An application that uses the OpenCV on the android platform to test mobile classifiers on the go. It allows for downloading of classifier on the go from a URL.

2015 **CSH Augmented Reality Logo (https://youtu.be/dxlEk2E-DCk)**
An Augmented Reality project for the Computer Science House at RIT.

Professional Skills

Advanced level	C++, ROS, OpenCV, Robot Drive Kinematics
Intermediate level	Python, Verilog, VHDL, PID, Linux, LiDAR
Basic level	Torch, Caffe, LaTeX

Relevant Courses

EE Classes	Semiconductor Devices, Digital Systems I, Digital Systems II
Robotics	Robotics Systems, Advanced Programming, Computational Problem Solving