Trevor Sherrard

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Summary

I am a roboticist, and machine vision enthusiast. I am a fourth year college student with a passion for seeing my software come alive in robotics and machine vision projects. I am currently seeking a Spring-Summer 2017 Co-Op.

Work experience

September 2016 – Present

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.

November 2014 – July 2015

Cuyahoga Community College

Physics Student Lab Assistant

Responsibilities included taking down and setting up laboratory experiments for earth science and physics classes. Also assisted professors during the lab with answering students' questions about the material at hand.

June 2012 – July 2015

Saint Edward High School

Engineering Camp Instructor

Worked the summers of 2012, 2013, 2014 and 2015. Helped promote interest in STEM related fields, specifically robotics and computer science, to middle school students. Duties included material procurement and classroom instruction.

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 project room. Allows user to query the type of tool using computer vision and HAAR classifiers. A laser diode on a two axis stepper motor gimbal will then point to where that tools resting location is.

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