

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 2017.

WORK EXPERIENCE

JANUARY 2017 – MAY 2017

Alstom Signaling

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.

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/dx1Ek2E-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