

# Trevor Sherrard

## CONTACT ME

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📍 3474 Nathaniel Rochester Hall  
Rochester, NY 14623  
☎ +1 (440) 799-2705  
✉ tws4129@rit.edu  
🌐 [www.trevorsherrard.com](http://www.trevorsherrard.com)

## SUMMARY

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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

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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

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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

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- 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

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- 2014 **HAAR Training Tutorial Web Page** ([http://www.trevorsherrard.com/Haar\\_training.html](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

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ADVANCED LEVEL	C++, ROS, OpenCV, Robot Drive Kinematics
INTERMEDIATE LEVEL	Python, Verilog, VHDL, PID, Linux, LiDAR
BASIC LEVEL	Torch, Caffe, $\LaTeX$

## RELEVANT COURSES

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