

# Trevor Sherrard

## CONTACT ME

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## 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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MAY 2017 – DECEMBER 2017

D3 Engineering

### *Software Engineering Co-Op*

Worked with the software team to develop hardware driver for an embedded automation platform.

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

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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