# 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 board support software and various device drivers for embedded advanced driver assistance systems. Prototyped various image processing piplines using OpenCV. Designed and performed various tests to verify RTOS software functionality.

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 ENGINEER-ING; ROBOTICS
Computer Science House

2014 - 2015 Cuyahoga Community College
COMMUNITY COLLEGE
Physics Club

### ROBOTICS PROJECTS

2017 Kudos (http://www.trevorsherrard.com/html/Kudos.html)

A differential drive robot making use of a distributed ROS architecture and an exploratory SLAM algorithm to map out unknown spaces.

2015 ToolID (http://www.trevorsherrard.com/html/ToolID.html)

Automatic tool identification for the computer science house woodshop.

2014 SortME (http://www.trevorsherrard.com/html/SortME.html)

My Computer Vision Robot Platform

### COMPUTER VISION PROJECTS

2016 HAAR Training Tutorial Web Page (http://www.trevorsherrard.com/html//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/html//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, C++, ROS, OpenCV,

Python, SPI and I2C

protocols

INTERMEDIATE LEVEL SLAM, Linux, LiDAR,

Imaging Science, embedded Linux

BASIC LEVEL Torch, Caffe, RTOS,

欧, Verilog

# RELEVANT COURSES

EE CLASSES Semiconductor Devices, Digital

Systems I, Digital Systems II

ROBOTICS Robotics Systems, Advanced

Programming, Computational

Problem Solving