

Edward Ahn

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Passionate about intelligent robots.

Education

Carnegie Mellon University – Pittsburgh, Pennsylvania	May 2018
<i>B.S. in Electrical & Computer Engineering</i>	
<i>Additional Major in Robotics</i>	
<ul style="list-style-type: none">GPA: 3.88, Major GPA: 4.00Coursework: Embedded Real-Time Systems, Fundamentals of Control, Computer Vision, Structure and Design of Digital Systems, Introduction to Robotics, Electronic Devices & Analog Circuits	
Singapore American School – Singapore, Singapore	2012 – 2014
<ul style="list-style-type: none">Excellence in Computer Science Award (2014)	

Work Experience

Hardware Engineering Intern, Google	Summer 2016
<ul style="list-style-type: none">Work on the Satellite Systems Engineering team of Terra Bella (formerly known as Skybox Imaging)Calibrate satellite's camera, using nonlinear regression and signal processing techniquesTest hardware validation of satellite controller board, involving writing embedded C code	
Research Assistant, Autonomous Driving	2016 - Present
<ul style="list-style-type: none">Develop path-planning algorithms in C++ for large vehicles like extended trailer trucks, busesBuild hardware for actuation and sensing of scaled-down models of target vehicles for testing	
Teaching Assistant, Principles of Imperative Computation	Fall 2015
<ul style="list-style-type: none">Teach imperative programming based on CTopics focus on data structures, algorithms and computational thinking	
Research Assistant, Google Lunar XPRIZE – CMU Planetary Robotics Lab	Spring 2015
<ul style="list-style-type: none">Prototyped a sun sensor that processed images from fisheye lens to calculate elevation/azimuth anglesAngles make attitude determination for lunar rovers more accurate	

Projects & Skills

FifthSense	Fall 2015
<ul style="list-style-type: none">PennApps (36-hour hackathon) project (http://devpost.com/software/brailleware)Assistive mobile platform designed to make features of smartphones accessible to the visually impairedAllows people to transmit and receive braille messages through six vibrating buttons controlled by an ArduinoLinked device to a simple QA service (personal assistant) on Android to demonstrate its potential usefulnessHonors: PennApps Grand Prize, PennApps Best Hardware Hack, Best AlphaLab Gear Hardware Hack	
QBot	Spring 2015
<ul style="list-style-type: none">3D-printed robot that navigates under the control of an Android smartphoneAutonomous navigation achieved after implementing a line-following algorithm in an Android applicationHonors: 2015 Carnegie Mellon Mobot Races First Place (cs.cmu.edu/mobot/index.html)	
Technical Skills: Java, Python, C, C++, MATLAB, HTML/CSS, JavaScript	

Extracurricular Activities

Carnegie Mellon Robotics Club	2014 – Present
Treasurer (2016 – Present)	
<ul style="list-style-type: none">Handle club funding involving allocation of donations, company sponsorships, university-provided funds	
Training Officer (2015)	
<ul style="list-style-type: none">Organize and teach robotics tutorials focusing on Arduinos, 3D printing, laser cutting and shop training	