

# Ethan J. Park

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<b>EDUCATION</b>	<b>Northwestern University</b> , Evanston, IL Master of Science in Robotics Bachelor of Science, Computer Science	December 2019 (Expected) June 2018
<b>COURSES</b>	Robotic Manipulation Design & Analysis of Algorithms Artificial Intelligence, Machine Learning	Embedded Systems in Robotics Quadrotor Design & Control Swarms & Multi-Robot Systems
<b>EXPERIENCE</b>		
	<b>Northwestern Solar Car Team</b> , Evanston, IL <i>Software Lead &amp; Treasurer</i>	September 2014 – Present
	<ul style="list-style-type: none"><li>Implemented vehicle telemetry in Visual Basic to store vehicle data on vehicle-side SQL Server database and transmit via TCP/IP to an external 'client' machine.</li><li>Implemented CAN communication in C++ between Tritium IQ battery management system, Wavesculptor20 motor controller, and two Arduino Dues.</li><li>Wrote and maintained C++ code for an informational LCD and switch/button panel for vehicle control, mounted on an Arduino Due.</li><li>Planned allocation of ~\$200,000 multi-year budget among different teams for SC8, the team's new car, and oversaw team's financial accounts.</li></ul>	
	<b>Skive it, Inc.</b> , Evanston, IL <i>Software Developer Intern (Remote)</i>	May 2017 – August 2017
	<ul style="list-style-type: none"><li>Implemented user/device data telemetry in Javascript and PHP using Geolocation API and Apache Cordova plugins for website and app, respectively.</li><li>Created real-time mode showing style and mood on a live video; wrote a video processing engine in Python and PHP code for sending the data to the server.</li><li>Wrote Python code for testing Bluetooth communications and robot functions on Sphero robot.</li></ul>	
	<b>Rehabilitation Institute of Chicago</b> , Chicago, IL <i>Undergraduate Research Assistant, Argallab</i>	March 2015 – May 2015
	<ul style="list-style-type: none"><li>Ran Gazebo simulations using ROS for semi-autonomous electric wheelchair.</li><li>Debugged wheelchair doorway detection code, written in C++.</li></ul>	
	<b>ROBOTIS</b> , Seoul, South Korea <i>Student Intern</i>	June 2013 – July 2013
	<ul style="list-style-type: none"><li>Coded a custom velocity profile in C++ for a Dynamixel Pro actuator to mimic bionic motion.</li><li>Built and programmed smartphone-controlled robots that reacted to environmental sensory data.</li><li>Maintained and tested the Tactical Hazardous Operations Robot (THOR) for the DARPA Robotics Challenge Team THOR.</li></ul>	
<b>SKILLS</b>	Python, C++, ROS, Ubuntu, Git, JavaScript, HTML	
<b>LANGUAGES</b>	Korean (native)	