Ethan J. Park

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Portfolio: ethanjpark.github.io

Education

Master of Science in Robotics	**2019 (Estimated)**

Northwestern University, Evanston, IL

Bachelor of Science in Computer Science	**2018**

Northwestern University, Evanston, IL

Academic Experience

Undergraduate Research Assistant	**March 2015 – May 2015**

Argallab, Northwestern University
- Ran Gazebo simulations using ROS for semi-autonomous electric wheelchair
- Debugged wheelchair doorway detection code

Industry and Extracurricular Experience

Software Lead	**Sept. 2014 – June 2018**

Northwestern Solar Car Team
- Implemented vehicle telemetry with vehicle-side SQL Server database and wireless TCP/IP data transmission.
- Implemented CAN between Tritium IQ battery management system, Wavesculptor20 motor controller, and two Arduino Dues.
- Programmed and maintained driver dashboard display and switch/button panel for vehicle control, mounted on an Arduino Due.

Software Developer Intern	**May 2017 – August 2017**

Skive It, Inc
- Implemented user/device data telemetry for website and app.
- Modified video processing engine to show real-time style and mood analysis on video.
- Tested Bluetooth communications and robot functions on Sphero robot.

Student Intern	**June 2013 – July 2013**

ROBOTIS
- Programmed a bionic velocity profile for a Dynamixel Pro actuator.
- Built and programmed smartphone-controlled robots with environmental sensors.
- Maintained and tested the Tactical Hazardous Operations Robot (THOR) for the DARPA Robotics Challenge Team THOR.

Technical Skills

Programming Languages: Python, C/C++, C#, HTML, CSS, JavaScript, PHP
Software and Tools: ROS, MATLAB, Mathematica, Git (version control)
Foreign Languages: Korean (fluent), German (basic proficiency)