

Adam Pollack
apollack11.github.io
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Education

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- Northwestern University**, Evanston, IL September 2017
- Master of Science in Robotics, GPA: 4.0
 - Courses Include: Embedded Systems in Robotics, Intro to Mechatronics, Robotic Manipulation, Haptics, Advanced Computer Vision, Computational Geometry, Machine Dynamics
- Lehigh University**, Bethlehem, PA August 2012-May 2016
- Bachelor of Science in Mechanical Engineering, GPA: 3.56
 - Honors: Dean's List, Tau Beta Pi Engineering Honor Society

Experience

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- Software Developer**, GreekPillar May-August 2016
- Designed and built a responsive UI for the platform using AngularJS
 - Used HTML/CSS and AngularJS to develop a dynamic form designer
 - Employed AngularJS services to connect data from a Robomongo database to the front end
- Co-Op Engineer**, RathGibson August-December 2014, May-August 2015
- Conducted research to help the company better understand the properties of their tubing product
 - Modeled tubing sample behavior under increasing internal pressure using strain gage data
 - Formulated an equation to model the burst pressure of a tube based on burst test results
 - Researched and purchased a new apparatus for collapse testing tubing samples
 - Utilized Excel VBA to automate spreadsheets to display distributions of data

Projects

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- Baxter Pick and Place**, *Embedded Systems in Robotics*, Northwestern University Fall 2016
- Programmed a Baxter robot to find an object under one of three cups after shuffling
 - Wrote code in Python which ran utilizing the Robot Operating System (ROS)
 - Used OpenCV to track the location of the three cups and the object
 - Implemented MoveIt! for motion planning and collision avoidance
- Shape Stream**, Android and iOS Mobile Game Spring 2016-Present
- Created a cross-platform application for both Android and iOS using Java
 - Built on the LibGDX game engine and ported to iOS using RoboVM
 - Won the Mobilehigh game competition at Lehigh University
- Interior Wall Imaging**, *Integrated Product Development*, Lehigh University Spring 2015-Fall 2015
- Worked to find a solution to map obstructions within a wall to provide a path for a robot
 - Used Matlab to gather signals from current wall scanning technologies
 - Presented information regarding market research and product mock-ups to a panel

Leadership

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- Vice President**, *Phi Delta Theta PA Eta*, Lehigh University Spring 2015-Fall 2015
- Served as chairman of the chapter Officer Council and Executive Committee
 - Oversaw all internal operations and organized the committee structure of the chapter
- Orientation Leader**, Lehigh University Fall 2013
- Facilitated discussions with incoming students about college life
 - Participated in five days of training designed to improve leadership skills