

# Ron Weasley

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Forward-thinking and entrepreneurial mechanical engineer with co-op experience at iRobot, Amazon, and Philips. Achieved 1<sup>st</sup> place in robotics competition by leading an interdisciplinary collaboration. Blends drive for excellence with humor and generosity.

## EDUCATION

**Northeastern University**, Boston, MA

May 2018

*Bachelor of Science in Mechanical Engineering GPA: 3.8 | Master's of Science in Engineering Management GPA: 4.0*

**Honors:** Dean's List (2013-Present), Galante Business Engineering Fellow, Capstone Design Honorable Mention

**Capstone Project: End Effector For Bridge Inspection and Maintenance Robot**

- Designed and fabricated an end effector to support a 60 lb. robot while traversing steel surfaces
- Created an Arduino driven actuation system, that focused on using mechanical advantage to adjust magnetic force
- Optimized system based on free body diagram analysis and experience in prototyping
- Research in magnetically aligning 3D printed polymers, and guiding stress/strain concentrations

**SOFTWARE SKILLS:** SolidWorks, Arduino, MATLAB, C++, Swift, Python, AutoCAD

**SOLIDWORKS SKILLS:** Analysis, Motion Study, Rendering, Surfacing (Beginner)

## PROJECT MANAGEMENT EXPERIENCE

**Dragon Innovation**, Boston, MA

December 2017 – Current

*New Project Development Intern*

- Created new system that optimized task tracking for far east project managers and gave more insightful data to US team
- Used Excel to generate a tool that would automate the output of useful metrics based on a master task list and schedule
- Implemented tool in the far east to begin the switch over towards a fully automated software product

**Star Rapid**, Zhong Shan, Guangdong, China

January – June 2017

*Engineering Business Development / Project Management Co-op*

- Acted as the interface between US and China, overseeing projects for western engineers
- Ensured on time delivery and quality standards were met for key accounts
- Ran competitive analysis against 5 companies: created report that advised top management on improvements
- Independently learned Salesforce for account management and business development
- Facilitated customer visits and interacted directly with engineers to ensure project quality and schedule

## MECHANICAL ENGINEERING EXPERIENCE

**Product Insight**, Acton, MA

January – June 2016

*Mechanical Design Co-op*

- Designed and fabricated proof of concept products using SolidWorks and hand mill for client demonstrations
- Ran electromechanical systems using Arduino, Teensy, and Raspberry Pi
- Coded iPhone application for demonstrating customer interaction with robotic drink maker
- Generated professional CAD drawings to be sent out for manufacturing

**Keurig Green Mountain**, Burlington, MA

January – July 2015

*Research and Development Engineering Co-op*

- Developed intricate injection molded pods for Keurig Kold
- Validated design using structured testing method then presented findings at weekly meetings
- Developed multiple electromechanical systems using Arduino programming that allowed for testing of brewers and pods

**Mide**, Medford, MA

December 2015 – January 2016

*Mechanical Engineering Intern*

- Designed a test system for high frequency accelerometers that tripled the efficiency of the quality department
- Fabricated all designed parts using hand mill and self-generated drawings

## BACKGROUND

Avid jazz saxophonist, diehard Boston sports fan, world traveler, and a healthy addition to the company soccer team.