

SAMUEL T. ELLIS

Rensselaer Polytechnic Institute
B.S. Mechanical Engineering
GPA: 3.48 / 4.00

EXPERIENCE

Raytheon · Mechanical Engineer, April 2015 – Present, Tewksbury, MA

- Manufacturing floor support for mechanical issues on various subassemblies
- Design for Manufacturability and Assembly – Mechanical design on CCAs and electronics housings
- Design proofing with tolerance analyses, material specifications, hardware compatibility, and cost analysis
- Documentation control through drawing releases and Engineering Change Notices in PDM
- Draft and test upgrade procedures for multiple subassemblies and systems
- Write engineering whitepapers to detail existing issues and propose solutions to maintain production schedule
- Travel to different customer locations to perform inspections and system inventory

Way Better Snacks · Marketing Correspondent, July 2014 – March 2015

- Promote products through demos at different stores and events
- Network with store managers and suppliers to expand the brand

EZCoaching Online · Engineer / Web Developer, January 2014 – June 2014, Troy, NY

- [Web App] Front End design implementation for swim practice creation and performance tracking
- [Wearable Device] Product design and minimum viable product concept creation and testing

Timken Aerospace · Product Engineer, May 2013 – August 2013, Lebanon, NH

- TeamCenter search category creation to increase efficiency and ease of use
- Reduced failed searches by 200% through reference doc creation and employee instruction

Hasbro · Product Design Engineer, January 2012 – July 2012, Providence, RI

- Design for plastic injection molding for multiple board game brands
- 3D print prototype designs to test with marketing and ensure proper game functionality
- Creation of product specifications (BoM, packaging, weekly capacity, country forecast)

LEADERSHIP & ACTIVITIES

The Inventor's Guild · Rensselaer Polytechnic Institute

- Mechanical Engineer & Web Developer for multi-award winning student think-tank
- Presented multiple ideas at student expos to secure prizes and promote projects

Varsity Indoor/Outdoor Track & Field Captain · Rensselaer Polytechnic Institute

- Supervise and provide tutoring for freshman study hall, organize pre-season training practices
- Work with coaches to plan team events and meets for over 100 student athletes

Projects

Rostock Max v2 3D Printer Build, Early 2016

- Assemble and calibrate the Rostock Max v2 3D printer – 11" diameter x 14" build volume
- Design, validate, and print various objects – publish designs for others to use

Probot · Mechanical Design Engineer, April 2013

- Programmable robot to help children learn programming and puzzle solving skills
- Rapid prototyping, project renders, mechanical system selection, and customization design

Skills & Certificates

- Proficient with SolidWorks, ProEngineer, Microsoft Office, Windchill PDM, 3D Printing
- Prior experience with HTML, CSS, JavaScript, VBA, MATLAB, Python, Plastic Injection Molding Principles

Secret Security Clearance, ASME GD&T Technologist Level Certified