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SAMUEL T. ELLIS

Rensselaer Polytechnic Institute
B.S. Mechanical Engineering

EXPERIENCE

Raytheon Mechanical Engineer Apr 15 - 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 / 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 whitepapers to detail existing issues and propose solutions to maintain production schedule
- Travel to different customer locations to perform inspections and demonstrate upgrade procedures

Way Better Snacks Marketing Correspondent Jul 2014 - Mar 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 Jan - Jun 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 - Aug 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 Jan - Jul 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 Track 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

Probot Rensselaer Polytechnic Institute Apr 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, Visio
- Prior experience with HTML, CSS, JavaScript, Python, MATLAB, Plastic Injection Molding Principles

Secret Security Clearance, ASME GD&T Technologist Level Certified