SAMUEL T. ELLIS

Rensselaer Polytechnic Institute B.S. Mechanical Engineering

EXPERIENCE

Micross Components (Corfin)

Engineering Group Lead

Jul 20 - Present, Manchester, NH

Assign tasks, determine priorities, and provide guidance to a group of 7 engineers

Write ROIs for new automation equipment to improve manufacturing throughput

Provide technical support to sales for new and existing customers

Manage the design and implementation of new tooling fixtures

Work directly with customers to generate quotes for non-standard jobs

Write and present qualification plans for new products / exchange of business

Corfin Industries

Senior Process Engineer

Apr 19 - Jul 20, Manchester NH

Designed, built, and implemented a drawing review procedure for the engineering team

Organized and implemented a task management and priority system for the engineering team

Design custom processing fixtures using aluminum, titanium, stainless steel, and composites

Main engineering contact during the quoting phase for complex proposals

Modify current processes with additional automation to increase efficiency and decrease variance

Pick and Place machine programming; instructor for technicians and operators

Raytheon

Mechanical Engineer

Apr 15 - Apr 19, Tewksbury MA

Led cross functional team for one aspect of a complete system redesign

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

SMT line fault analysis, temperature profiling, pick and place validation, ease of automation studies

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

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

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)

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, Ruby, Plastic Injection Molding Principles

ASME GD&T Technologist Level Certified