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SAMUEL T. ELLIS

Rensselaer Polytechnic Institute
B.S. Mechanical Engineering

EXPERIENCE

aPriori Technologies Application Engineer Apr 21 - Present, Bedford, MA

- Customize demonstrations / presentations to address prospective client's business needs
- Work closely with sales team to manage technical details associated with the aPriori solution
- Lead consultative solution sessions with prospects in the FRP, demo, and follow-up phases
- Articulate aPriori value and capabilities to senior level audiences (vision setting)
- Solution advisor for electrical cost models (PCBA, PCB, Wire Harness)
- Configure the aPriori software to align with customer needs and expectations

Micross Components (Corfin) Engineering Group Lead Jul 20 - Apr 21, 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
- 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
- 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

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)

SKILLS & CERTIFICATES

Proficient with SolidWorks, ProEngineer, Microsoft Office, Windchill PDM, 3D Printing, aPriori
Prior experience with HTML, CSS, JavaScript, Python, Ruby, aPriori, JasperReports

ASME GD&T Technologist Level Certified