

Christian Timbol

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EDUCATION

B.S. Industrial & Systems Engineering (ISE)
San Jose State University, San Jose, CA

Aug 2012 - May 2017

WORK EXPERIENCE

Industrial Engineering Intern
Space Systems Loral, Palo Alto, CA

May 2016 - May 2017

- Mapped and measured the process of defining, translating, and manufacturing Thermal Multi-Layer Insulation (MLI) Blankets. Used **ISE analysis tools**, including Control Charts (SPC), Forecasting, Pareto Charts (Non-Conformances), Root Cause Analysis (RCA), Swimlane Flowcharts, Time Studies, and Queuing to identify/reduce Wastes, enhance Quality, and improve Efficiency/Flow.
- Collected and analyzed historical data sets of Thermal budget using **Excel** to identify trends.
- **Developed software tool written in Python + PyQt** (GUI) to be used with a barcode scanner to assist with inventory management involving Thermal MLI Blankets. Worked with Manufacturing Engineers/Technicians for requirements.
- **Developed and bug-tested the Front-End (AJAX, AngularJS, Bootstrap, HTML/CSS, JavaScript, jQuery) and Back-End (PHP, SQL/MySQL) of an internal website** used for tracking and supporting process improvement initiatives for the Thermal Systems Department. Worked with Thermal Systems Engineers/Analysts for requirements. Deployed website for Windows environment.

SOFTWARE SKILLS

Languages: C (Arduino), HTML/CSS, JavaScript, Python, PHP, SQL
Tools: AJAX, AngularJS, Bootstrap, Gamepad API, Git, jQuery, MySQL, Node.js, phpMyAdmin, PyQt, ReactJS, three.js, VirtualBox (Linux)
Misc: Agile, Excel, PowerPoint, Software Development Life Cycle (SDLC), SolidWorks, UX Design, Visio, Word

PROJECTS

University Rover Challenge 2017: christiantimbol.com/loch.html

Sept 2016 - June 2017

- Member of **SJSU Robotics Project Loch** who **developed and bug-tested the Arm & End Effector Interface** required for Mission Control based on competition requirements, using: **Bootstrap, HTML/CSS, Gamepad API, Git, JavaScript, jQuery, Node.js, ReactJS, three.js, VirtualBox (Linux)**.
- Used **Agile/Scrum** Development and contributed/received code and UI review from Mission Control and Control Systems members.

Spartan Course Analysis & Matching Web App: christiantimbol.com/SCAM.html

Feb 2017 - May 2017

- **Led student team who developed and bug-tested a Web App** that added social networking and other user-centric features to redesign students' course enrollment by using: **Bootstrap, HTML/CSS, JavaScript, jQuery, MySQL, PHP, phpMyAdmin, SQL**.
- Used **SDLC and Visio** for documentation/development.

Optimization of Nickel-Iron Plating Process: christiantimbol.com/195B.html

Sept 2016 - May 2017

- Used DMADV Six Sigma model for a manufacturing optimization project at a computer storage device company.
- An improvement initiative was to **develop a streamlined User Interface** based on worker feedback/requirements, using: **Bootstrap, HTML/CSS, JavaScript, jQuery**.

Intel Rapid Prototyping Challenge (RPC) v3.0: christiantimbol.com/blynx.html

Aug 2015 - Dec 2016

- **Led Team Blynx** who developed, troubleshooted, and presented a **prototype navigational device** for visually-impaired people based on research, feedback, and requirements, using: **C (Arduino), MakerBot, SolidWorks**.
- 20 initial teams began, 9 made it to the final milestone, and **Team Blynx received 2nd place** at the final milestone.