

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, such as **Swimlane Flow Charts, Control Charts, Pareto Charts, Forecasting, and Queuing**.
- Developed **software tool written in Python + PyQt** (GUI) that's used with a barcode scanner to assist with inventory management involving Thermal MLI Blankets. Worked with Manufacturing Engineers/Technicians for requirements.
- **Full Stack Development using HTML/CSS, Bootstrap, JavaScript, AJAX, jQuery, AngularJS, PHP, MySQL** to create and bug-test an internal website 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

Sept 2016 - June 2017

Member of **SJSU Robotics Project Loch** who built 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

Feb 2017 - May 2017

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

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

Aug 2015 - Dec 2016

Leader of Team Blynx who designed, developed, troubleshooted, and presented a **prototype navigational device** for visually-impaired people based on research, feedback, and requirements, using: **C (Arduino), MakerBot, SolidWorks**. Received 2nd place.

AWARDS

Dean's Scholar

Apr 2017

2nd Place Intel RPC v3.0

Dec 2015

Delta Upsilon Four Founding Principles Scholarship

Apr 2015

SJSU A.S. 55 Award

Mar 2015