Christian Timbol

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EDUCATION

B.S. Industrial & Systems Engineering (ISE)   Aug 2012 - May 2017
San Jose State University, San Jose, CA

WORK EXPERIENCE

Industrial Engineering Intern   May 2016 - May 2017
Space Systems Loral, Palo Alto, CA

- **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** to be used with a barcode scanner to assist with **inventory management**.
- Developed and bug-tested the Front-End and Back-End of an internal website for **tracking and supporting process improvement initiatives**, using **SQL/MySQL for the database**. Worked with Thermal Systems Engineers/Analysts for requirements.

INDUSTRIAL & SYSTEMS SKILLS

Languages:	LINGO (Mathematical Modeling), Python, R, SQL
Tools:	Agile, DMADV, Excel, Flowcharts, Forecasts, MiniTab, MySQL, Pareto, PowerPoint, ProModel, PyQT, RCA, Software Development Life Cycle (SDLC), SolidWorks, SPC, SPSS, Time Studies, Queuing, Visio, Word

PROJECTS

University Rover Challenge 2017: christiantimbol.com/loch.html   Sept 2016 - June 2017

- Member of **SJSU Robotics** Project Loch who built and bug-tested the **Arm & End Effector Interface** required for Mission Control. Used **Agile/Scrum** Development for efficiency and quality.
- Served as **Business Team Lead and Treasurer** which entailed **Financial Analysis** to abide to competition budget.

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, using **SDLC and Visio** for documentation/development and **SQL/MySQL for the database**.

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, which entailed developing a **streamlined User Interface**, using **LINGO to Mathematically Model** worker utilization, as well as **defining and mapping Non-Value Adding Activities and Value Adding Activities** of the process using **Swimlane Flowcharts**.
- Also assisted in building a **ProModel simulation** of the manufacturing process, statistically analyzing using **Design of Experiments (MiniTab)**, **Financial Analyzing using Excel**, and recommending/supporting aforementioned improvement initiatives.

University Rover Challenge 2016: christiantimbol.com/ness.html   Sept 2015 - June 2016

- Member of **SJSU Robotics** Project Nessie who used **SolidWorks** for developing CADs of sheet metal Chassis parts and acrylic pegboards.

Human-Robot Interaction Research: christiantimbol.com/HRI.html   Feb 2016 - Aug 2016

- Assisted in grad-level research, using **SolidWorks** to develop CADs of robot arms and assisting in **Design of Experiments (SPSS)**.

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, using **SolidWorks and MakerBot** to design and 3D print an ergonomic case. **Received 2nd place**.