Christian Timbol

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WORK EXPERIENCE

Space Systems Loral   **May 2016 – May 2017**
Industrial Engineer Intern   *Palo Alto, CA*
- Developed an internal website to support Thermal Systems' process improvement efforts, using PHP, SQL/MySQL, and HTML/CSS/JavaScript/AngularJS.
  - Communicated with MySQL database using "Asynchronous JavaScript and XML" (AJAX) and PHP.
  - Deployed website for Windows environment after collaborating with IT.
- Analyzed the thermal blanket process then translated and interpreted data from analysis to Thermal, Production, and Manufacturing teams for potential improvements.
  - Developed a prototype Python tool used with a USB barcode scanner to improve material management.

PROJECT EXPERIENCE

Twitterlytics: ctimbol.com/live-Twitterlytics   **Jan 2018 - Present**
- Developed Twitterlytics, an application that collects, parses, and displays Twitter JSON data, using Python/Tweepy/Flask, SQL/SQLite, HTML/CSS/JavaScript, and Git.
  - Illustrated the app's data flow from backend to frontend through Visio diagrams.
  - Verified software functionality throughout app development using the unit testing framework.

ViralityBot: twitter.com/viralitybot   **Sep 2017 – Jul 2018**
- Developed ViralityBot, a Twitter bot that scans for and retweets viral tweets, using Python/Tweepy and Git.

Mission Control Interface: ctimbol.com/loch   **Sep 2016 – Jun 2017**
- Developed the arm and claw interface of SJSU Robotics' rover, using HTML/CSS/JavaScript/ReactJS and Git.
  - Displayed responsive 3D models of the arm according to interface inputs using three.js library.
  - Synchronized inputs from a USB joystick controller with interface using Gamepad API.
  - Deployed interface for Ubuntu Linux environment.

Spartan Course Analysis & Matching: ctimbol.com/SCAM   **Feb 2017 – May 2017**
- Led team in developing a course enrollment app, using PHP, SQL/MySQL, and HTML/CSS/JavaScript.
  - Block diagrammed using Visio to document various stages of the app through the SDLC process.
  - Used Apache as a local web server for development and debugging.

Optimization of Nickel-Iron Plating: ctimbol.com/195B   **Sep 2016 – May 2017**
- Developed a streamlined user interface based on worker feedback, using HTML/CSS/JavaScript.
- Conducted mathematical analysis to increase manufacturing output, using linear algebra and LINGO software.

Intel Rapid Prototyping Challenge v3.0: ctimbol.com/blynx   **Aug 2015 – Dec 2016**
- Led team in developing a navigational device for visually-impaired people, using Arduino/C and an Intel Edison, which was awarded 2nd place at the final milestone held at Intel Headquarters.

EDUCATION & SKILLS

San Jose State University   **May 2017**
Bachelor's Degree in Industrial & Systems Engineering (ISE)   *San Jose, CA*
- **Languages:** C, CSS, HTML, JavaScript, LINGO, PHP, Python, SQL
- **Technologies:** AngularJS, Apache, Arduino, Flask, Git, MySQL, ReactJS, SQLite, Visio
- **Operating Systems:** Linux, MacOS, Windows