Email: info@thekendall.io
Website: thekendall.io

Kendall Lui
San Francisco, CA 94127
(Open to Relocation)

Skills

Programming Languages: Python, C/C++, Swift, Java, Matlab, Ladder Logic
Frameworks, Protocols, APIs: Django, iOS SDK, Arduino, SPI, I2C, UART, Modbus RTU, Raspberry Pi, TI CC3200 SDK, SNMP, UNIX, POSIX, AWS, Ethernet/IP
Software Development Tools: Git, Jira, Bitbucket, PyCharm, Xcode, TI Code Composer, Allen Bradley Studio 5000
Mechanical Skills: Solidworks, CAD, DFM, Additive Manufacturing, Manual Mill, Manual Lathe, 3D Printing, CNC Routing, Automation, Lean Manufacturing
Miscellaneous: Battery Pack Design following UN38.3, Automation Electrical Panel Design NFPA 79, Design of Safe Laser Systems for Manufacturing ANSI Z136.9, Safety Circuit Design.

Experience

Bloom Energy - Sunnyvale, CA   July 2019 - Current
Sr. Machine Integration and Metrology Engineer (Equipment Engineering)
- Maintain existing automated visual inspection systems as well as bring up of new metrology equipment.
- Designed and brought up a pilot manufacturing line to refurbish fuel cell components.
  - Completed all of the mechanical design of fully automated refurbishment tool.
  - Implemented PLC control software for automated tool interfacing with multiple pieces of equipment.
- Lead design of second generation automated fuel cell refurbishment tool for high throughput production.
  - Led mechanical design of material handling system. Selected appropriate components and designed custom fixtures with Solidworks.
  - Led electrical panel design and construction following NFPA 79 standards.
  - Designed software control system and implemented using Ladder Logic on Allen Bradley PLC.

Caban Systems - San Mateo, CA   July 2018 - July 2019
Mechanical Engineer
- I designed and owned all of the Mechanical Design for Caban Systems Inc's first generation energy storage system including battery pack design and cabinet system.
- Works with vendors locally and overseas for procurement and manufacturing of parts.
- Involved in design from the initial concept to production ready tooling.
- Part of the installation team to successfully install the first pilot unit in Durango, Mexico.
- Additionally I own the software development on the Telemetry subsystem that provides the realtime data of field installed energy storage systems over the cellular network. (Python, UNIX, MQTT, AWS)

Bloom Energy - Sunnyvale, CA   Summer 2016, Summer 2017
Equipment and Infrastructure Engineering Intern
- Provided support to the Equipment Engineering Team to implement continuous improvements for the manual and automated Fuel Cell assembly making improvements to safety, yield, and cycle time.
- Designed, built, and tested manual assembly fixtures for the production floor.
  - Worked across multiple teams/departments during the design process
  - Created all drawings, schematics, and manuals.

Education

University of California, Davis
Bachelor of Science in Mechanical Engineering, Bachelor of Science in Computer Science
Projects: Double Pendulum Balancing Robot, iOS Mill Chatter Resolver App
Coursework: Spatial Kinematics (Robotics), Mechatronics, Mechatronic Modeling (Bond Graphs), Embedded Systems, Operating Systems, Artificial Intelligence, Computer Vision