

Anna Lai

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SPAN

Jan 2022 –
Present

Senior Mechanical Engineer

Working on electric panels and EVSE to enable home electrification for all.

- Designed next generation panel enclosures, system bussing, and electromechanical modules improving installer and homeowner experience.
- Created EVT test plans, designed test fixtures, analyzed experimental data to drive design improvements ensuring product safety and performance.
- Drove cost-down design efforts and supported manufacturing ramp at CMs.
- Directed overseas tooling vendors to optimize DFM and resolve quality issues to deliver in spec parts and meet accelerated program timelines.
- Led EVSE mechanical FMEA, reliability testing, and sustaining design updates.

Natron Energy

Jun 2018 –
Jan 2022

Mechanical Design Engineer, Battery Intern

Novel sodium-ion battery cell, module, and packs for data center UPS.

- Designed 1U battery tray interconnects, harnessing, and user facing features.
- Created and coordinated execution of verification and validation test plans.
- Developed assembly and test fixtures, SOPs for in-house manufacturing.
- Programmed empirical ANSYS electrochemical models to inform cell and module design.

Chevron

Jun – Sep 2019

Upstream Capability Intern

- Set KPIs for contractor performance evaluation across global business units.
- Processed language data and created dashboards to improve operational efficiency in the field.

Schlumberger

Jun - Sep 2017

Mechanical Engineering Intern

- Conceptualized a redundant hydraulic activation system for Sand Control.
- Conducted reliability analysis, FMEA, and modeled designs in Creo.

Stanford University

2014–2019

B.S. 2018 + M.S. 2019 | Mechanical Engineering

Focus: Energy Systems, Design & Manufacturing, Computer Vision

Undergraduate Research: Prakash Lab

CAD: Solidworks, PTC Creo, AutoCAD, ANSYS, CAM | **Design:** Illustrator, Photoshop
Programming: Python, C++, HTML/CSS, MATLAB, R, SQL | **Languages:** Mandarin, French