Tai Kao-Sowa Resume

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Systems engineer working in renewable energy and smart home development. Experience working with biological and biomedical systems.

EXPERIENCE

Span.IO **San Francisco, CA**
Systems Engineering Intern *April-September 2020*

- Working on manufacturing and systems testing for the Span panel, an intelligent circuit breaker that provides load metering and control as last-mile resource for distributed residential solar grids.
- Started full time as systems engineer in January 2021

IBEKA **Jakarta, Indonesia**
Electrical Engineering Intern *Fall 2018-Summer 2019*

- Developed remote monitoring system for rural micro hydroelectric power plants, working with circuit simulation and design, power electronics, and in-field implementation and testing.

Miroculus Inc. **San Francisco, CA**
Electrical Engineering Intern *Summer 2018*

- Worked on digital microfluidics automation: circuitry, control systems, firmware.

Neural Prosthetic Systems Lab **Stanford, CA**
Research Assistant *Spring 2018*

- Aided in creating an autonomous system designed to train reaching tasks for BMI experiments with nonhuman primates, working with Simulink and C under Dr. Michaels in the Stanford Neural Prosthetics Systems Lab.

Stanford Integrated Biomedical Systems Lab **Stanford, CA**
REU Intern *Summer 2017*

- Worked on chip design for wireless hippocampal engram circuit neuron stimulation. Potential for memory recovery and reconsolidation in amnesic mice. Worked with Cadence circuit simulations.

EDUCATION

Stanford University **Stanford, CA**
MS candidate in Electrical Engineering *Est. Spring 2022*
BS in Electrical Engineering, GPA: 3.77 *January 2021*
Relevant Coursework: *Power Electronics, Convex Optimization, Linear Dynamical Systems, Feedback Control Design, Biochips and Medical Imaging*

Thomas Jefferson High School for Science and Technology **Alexandria, VA**
June 2016

Other

- Stanford Daily Contributing Writer, 2019-2020
- Stanford Student Space Initiative, microfluidics biology team 2017-2018.
- Stanford Jiu Jitsu President 2018-2019 & active competitor