Brian Tanabe

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EDUCATION

M.S. Mechanical Engineering `Apr 2022 - Jun 2023`
Stanford University, Stanford, CA

B.S. Product Design `Sep 2017 - Jun 2022`
Stanford University, Stanford, CA

EXPERIENCE

Product Design Engineer & Consultant `Jan 2019 - Present`
Foldscope Instruments, Palo Alto, CA

- Prototyped new devices of research and development
- Built a cross-platform mobile application to augment the Foldscope user experience
- Conducted user interviews to collect stakeholder feedback across 5 countries

Software Design Intern `Jun 2020 - Sep 2020`
Trove Foods, San Francisco, CA

- Wrote code to operate a prototype PID controlled cooking device
- Built jigs and wrote test code for candidate hardware

Balloons High Altitude Recovery Team Lead & Mechanical Engineer `Jan 2018 - Jan 2020`
Stanford Student Space Initiative, Stanford, CA

- Oversaw the research and design of a new recovery design
- Managed prototype development & testing
- Worked with a small team to develop a guided recovery device for payloads dropped from ~35,000ft
- Built temperature resistant systems to maintain stability and record flight data for high-altitude balloons

Team Lead & Mechanical Engineer `Jan 2018 - Sep 2019`
Engineers for a Sustainable World | Remote Monitoring Device Team, Stanford, CA

- Developed ruggedized, user friendly casings for all electronics
- Lead a small team of engineers developing a monitoring device for sustainable power plants in rural areas
- Coordinated the installation of multiple prototypes in multiple provinces of Indonesia
- Created and managed project budgets, critical timelines, and documentation

Summer School Mechatronics Teacher `Jul 2017 - Aug 2017`
The Belmont Hill School, Belmont, MA

- Created multiple curricula for 3D printing, laser cutting, and Arduino
- Instructed three different STEM focused classes for students aged 8-17
- Introduced high-school students to standard CAD programs and practices

SKILLS

Programming	C/C++, Python, Javascript, HTML/CSS, MatLab
CAD	Fusion360, Solidworks
Design	Figma, Sketch, Adobe Illustrator
Fabrication	3D Printing, Laser Cutting, Injection Molding, Casting
Extracurriculars	Outdoor Trip Leader, Stanford Marching Band Tenor Saxophone Section Leader, Stanford Polo Team