

# Brian Tanabe

btanabe@stanford.edu | 6174180533 | Palo Alto, CA | <https://briantanabe.org> | <https://linkedin.com/in/btanabe>

## EDUCATION

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### B.S. Product Design

Stanford University, Stanford, CA

Sep 2017 - Jun 2022

## EXPERIENCE

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### Product Design Engineer & Consultant

Foldscope Instruments, Palo Alto, CA

Jan 2019 - Present

- 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

### Intern

Trove Foods, San Francisco, CA

Jun 2020 - Sep 2020

- 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

Stanford Student Space Initiative, Stanford, CA

Jan 2018 - Jan 2020

- 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

Engineers for a Sustainable World | Remote Monitoring Device Team, Stanford, CA

Jan 2018 - Sep 2019

- 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

The Belmont Hill School, Belmont, MA

Jul 2017 - Aug 2017

- 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

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| 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 |