

# Brian Hou

brianhou818@gmail.com

+1 (510) 850-7996

**OBJECTIVE** To obtain a hands-on internship position as a mechanical/robotics engineer specializing in designing and analyzing mechanical equipment used in automation

**EDUCATION** Arizona State University (ASU) August 2022 - May 2026  
Robotics Engineering (Expected)

**ACTIVITIES** ASU VEX Robotics Varsity August 2022 - Present  
Head of Mechanical Design

- Mechanical head of the Rossum Rumlbers and PYRO robotics team
- Mechanical design by Solidworks
- Responsible for robot construction
- Construction troubleshooting and C++ debugging

ASU Swimming Club August 2022 - Present

- Joined daily practice
- Competed in swim meets against other universities

VEX Robotics Varsity in KCIS, a high school in Taiwan 2019 - 2022  
Team Founder & Mechanical/Design Lead

- Founded the school robotics team and led mentoring sessions for newcomers
- Designed and constructed several winning VEX robots
- Led the varsity team to win awards in various national and international competitions
- Successfully promoted VEX as one of the most popular clubs in the school
- Founded a VEX Discord group and answered members' questions.
- Continued to mentor newcomers after graduation.

**HONORS & AWARDS**

- VEX U World Championship Build Award & CAD Challenge Winner (2023)
- VEX U Design Award (2023)
- Interviewed on stage at the largest robotics competition (2023)
- Dean's List (Fall 2022)
- VEX VRC national champions & World Championship qualifier (2019-2022)

**SKILLS**

- Proficient in mechanical design and construction
- SolidWorks 3D design
- Programming languages (C/C++, Python)
- Leadership, collaboration, analysis, and mentoring
- Windows, Linux

**LANGUAGE** Native speaker of English and Mandarin