

Brian Hou

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(510) 850-7996

OBJECTIVE

Seeking a dynamic internship position as a hands-on mechanical/robotics engineer, specializing in designing, analyzing and building mechanical equipment focused in automation.

EDUCATION

Robotics Engineering, BSE

Arizona State University (ASU)

Sophomore

Cumulative GPA: 4.0

EXPERIENCE

Head of Mechanical Design

August 2022 – Present

ASU VEX Robotics Varsity

- Mechanical head of the Rossum Rumlbers and PYRO robotics team
- 3D design using SolidWorks for complex mechanisms such as PTO drivertrain
- Responsible for 2 robot designs, testing, construction, and troubleshooting
- Programming/debugging using C/C++

World Championship Expedition Crew

May 2022 – Present

ASU PYRO Robotics, Rossum Rumlbers Robotics

- Won the world's highest award for robot construction, 3rd consecutive year
- Built the most discussed robot at the championship event, and awarded an interview on the main stage.
- Became one of the three most important members of the team within the 1st year on joining

Founder & Mechanical/Design Lead

June 2019 – May 2022, Taiwan

VEX Robotics Varsity in KCIS (High School)

- Won the National Champion of Taiwan for two years
- 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.

SKILLS

- 3D Mechanical Computer-Aided Design: SolidWorks, GrabCAD, Autodesk, OpenSCAD
- Mechanical Construction: Working knowledge with machinery and hand tools
- Programming languages (C/C++, Python, Arduino, HTML & CSS)

PERSONAL INTEREST

- Swimming
- Photography
- Certified in Emergency First Response (P.A.D.I. 2022)