Brian Hou

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OBJECTIVE

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

EDUCATION

Robotics Engineering, BSE   Sophomore, 2022-2026 (Expected)
Arizona State University (ASU)   Cumulative GPA: 4.0

WORK EXPERIENCE

Technician at Local Taiwanese Company (Internship)   May 2023 – August 2023
Delivery Robot Designer, Computer Technician
• Delivery robot CAD, planning, prototyping, construction
• In charge of all the computer software/hardware issues
Skills: Solidworks, Computer Technician, Robotics Engineering

PROJECT EXPERIENCE

Mechanical Design Lead   May 2022 – Present
ASU VEX Robotics Varsity
• Mechanical head of the Rossum Rumblers 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++
Skills: Mechanical Design, Solidworks, Robotics Engineering, C/C++

World Championship Expedition Crew   June 2022 – May 2023
ASU PYRO Robotics, Rossum Rumblers 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
Skills: Leadership, Mechanical Technologies

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: Leadership, Mentoring, Mechanical Design, Solidworks, Robotics Engineering, C/C++

SKILLS

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

CERTIFICATIONS

• Titans of CNC Titan 1-3M CAD Solidworks Certification
• Certified in Emergency First Response (P.A.D.I. 2022)