Matthew Hui

Entry-Level Mechanical Engineer

Experienced Entry-Level Mechanical Engineer with expertise in creating CAD models and participating in engineering competitions. Proficient in database management, PDM & PLM, and various CAD software. Strong focus on technical standards and innovative problem-solving. Committed to utilizing skills and knowledge to contribute to project success and drive continuous improvement in mechanical engineering.

Contact

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Links

My Portfolio Website

LinkedIn

Education

May 2024
B.S. Mechanical Engineering Technology
Purdue University - Main Campus
- GPA: 3.79
- Semester Honors on most semesters

Expertise

- CAD Software
- Technical Standards (GD&T, P&ID)
- PDM & PLM Experience
- Programming Languages
- Database Management
- Analysis & Simulation Tools

Language

- **English**
- **Cantonese**
- **Mandarin**
- **Japanese**

Experience

Jan 2024 - Jul 2024
Purdue University | West Lafayette, IN
Mechanical Engineering Student Assistant
- Participated in Quanser's 2024 American Control Conference Self-Driving Car Student Competition
- Implemented models to detect various objects, created a function to calculate the relative distance from the camera accurately, and wrote a code to generate objects and images in Quanser Interactive Labs.

Jun 2023 - Aug 2023
Chenbro Micom (USA) Inc. | Ontario, CA
Mechanical Engineering Specialist Intern
- Created CAD drawings/models for the Reference Motherboard website and customer projects, managed 3D printing tasks including designing and troubleshooting on the Ender 3, developed SOPs, and provided training and support on STL file conversion and slicer applications.

Aug 2021 - May 2022
Purdue University | West Lafayette, IN
Data Science Student Researcher
- Analyzed variables correlating to students' educational and mental success at Purdue and demonstrated how factors within Purdue Recreational and Wellness might affect GPA using a Tableau dashboard.

Achievement

- Participation in Quanser's 2024 American Control Conference Self-Driving Car Student Competition
- Presenter in 2022 Data Mine Corporate Partners Symposium

Project

- **Water Slide Design**: Designed a serpentine water slide using Solidworks, adhering to ASTM standards and space/angle limitations.
- **Zero-Turn Mower**: Developed a zero-turn mower, ensuring efficiency through MATLAB, Simulink, and AutoCAD analysis.
- **Boeing 787 Case Study**: Analyzed grounding issues and emphasized the importance of design reviews and change management.