Matthew Hui

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EDUCATION

B.S. Mechanical Engineering Technology | Purdue University, West Lafayette, IN *Aug 2020 -May 2024*
Cumulative GPA: 3.79 | Semester Honors on most semesters

WORK EXPERIENCE

Mechanical Engineering Student Assistant | Purdue University | West Lafayette, IN *Jan 2024 - Jul 2024*

- 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

Mechanical Engineering Specialist Intern | Chenbro Micom (USA) Inc. | Ontario, CA *Jun 2023 - Aug 2023*

- 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.

Data Science Student Researcher | Purdue University | West Lafayette, IN *Aug 2021 - May 2022*

- 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

PROJECTS

Water Slide Project

- As a team, we designed a serpentine water slide aligned with the ASTM F2376-17a standards and adhered to space and angle limitations for gradual height decrease using Solidworks.

Zero-Turn Mower Design Project

- Designed a zero-turn mower that meets system requirements and ensured efficient operation through analytical calculations using Matlab, Simulink, and AutoCAD.

Boeing 787 Dreamliner Case Study Project

- Analyzed the aircraft grounding due to electrical problems, discussed Boeing's evolving PDM processes, and highlighted the importance of thorough design reviews and change management for aviation safety.

SKILLS

Technical Standards (GD&T, P&ID); **CAD Software** (Solidworks, Fusion 360, PTC Creo, AutoCAD, Siemens NX); **PLM Software** (Aras Innovator, Windchill); **Programming Languages** (Python, R, SQL); **Database Management** (Microsoft Access); **Analysis/Simulation Tools** (MATLAB, Simulink, LabVIEW, Quanser Interactive Labs, Tableau)

CERTIFICATIONS

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