

MADEL HUMBERT

5116 Booth Rd, China, MI 48054 ♦ (810) 278-2961 ♦ mhumbert2018@outlook.com

SKILLS

Autodesk Inventor | SolidWorks | C++ | Python | R | AutoCAD | MATLAB | Julia | Microsoft Office | Arduino

EDUCATION

University of Michigan | Ann Arbor, MI

May 2022 to Present

Major – Robotics Engineering

Current GPA – 3.97

Relevant Coursework: Programming and Introductory Data Structures, Introduction to Electronic Circuits, Robotics Mechanisms, Introduction to Human-Robot Systems, Computational Linear Algebra, Probability and Statistics, Calculus 2 & 3, Physics 1 & 2

Marine City High School | Marine City, MI

Sept 2018 – June 2022

GPA – 4.17

Valedictorian

EXPERIENCE

Jessup Systems | Rochester Hills, MI

Mechanical Engineering Intern

May 2023 – July 2023

- Applied Design for Manufacturability (DFM) and Design for Assembly (DFA) methodologies to optimize standardized models, resulting in a significant reduction in part count from 15 to 6, ultimately saving costs and labor hours.
- Enhanced an Excel formula program to calculate optimal tank sizes based on customer requirements, improving accuracy and efficiency.
- Collaborated effectively in biweekly team meetings with fellow engineers to enhance the design of existing parts, implementing DFM/DFA principles.
- Utilized finite element analysis to simulate real-world performance, ensuring robust and efficient designs.
- Generated and revised 3D models and drawings for machine components using Autodesk Inventor, making the manufacturing process more efficient.
- Developed and refined sales layout drawings using AutoCAD for finishing machines, aligning them with customer specifications.

PROJECTS

MARI | Group Project

October 2022 – December 2022

- Designed and developed an interactive robot with real-time voice recognition capabilities using MOVI, Arduino, and C++.
- Engineered the robot's responses to user input, allowing it to react dynamically to correct and incorrect answers in a maze-based game.
- Successfully demonstrated the robot's performance in the maze navigation game, illustrating its potential for educational and research purposes.

EXTRACURRICULARS

Spark (Electric Motorcycle Project Team) • University of Michigan | Science Olympiad – State Finals Participant • Marine City High School | National Honor Society • Marine City High School |

AWARDS

College of Engineering Dean's Honor List • 2023 | William J. Branstrom Freshman Prize (Top 5% of the class) • 2023 | Summa Cum Laude • 2022 | WXYZ Brightest and Best • 2022 | President's Education Awards Program • 2022 |

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