Ziyang (Jason) Ning

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United States Citizen

Education

University of Michigan, Ann Arbor *Expected Graduation: 2025*
2nd-year Electrical Engineering BSE
GPA: 3.885/4.0
Objective: Looking for a Summer 2023 Internship, available May 1, 2023
Coursework: Intro to Electronic Circuits, Intro Signals & Systems, Electromagnetics, Programming & Data Structures
Area of Interest: Sensors, Systems, Signal Processing, Robotics, EE-related fields

Teams/Projects

Sensors Subteam Lead - Autonomous Robotic Vehicle Team *September 2021 - present*

- Combined data from LiDAR, GPS, IMU, and Encoders using sensor fusion and aggregation techniques
- Collaborated with other subteam leads to design and develop the vehicle systems and architectures
- Created a simulation environment for testing the path planning algorithm and various sensors
- Drafted debugging and setup documentation, increased available documentation in the team by 85%
- Organized training for members, and created practice projects with ultrasonic and IMU sensors

Dual-Axis Solar Tracking Device *March 2022 - April 2022*

- Developed solar tracking algorithm with Arduino and processed analog data from photoresistors which achieved a 95% tracking success rate
- Implemented a charging circuit with 2 voltage output modes and an output efficiency of 30%
- Utilized 3D printing and CAD for prototyping, kept the overall project budget within $50

Solar Car *April 2022*

- Calculated gear ratio and optimized torque from the motor to maximize the weight pulled by the car under specified time and distance
- Won 1st place out of 20 teams for performance in both speed and maximum weight pulled

Work Experience

Zhao's International Trading Corporation (part-time) *2020 - 2021*
Client Services Coordinator/Assistant technician

- Utilized bilingual skills and technical knowledge to communicate with Chinese manufacturers and their American clients in defining requirements and constraints for automated production lines.
- Communicated with potential customers through emails and phone calls, led to revenue growth of 200% for 6 consecutive months

Skills

- Robot Operating System(ROS), Arduino, Linux, C++, Matlab, LTspice, soldering
- Writing documentation, group communication, presentation, growth mindset
- Bilingual in Chinese Mandarin and English