Expected 2025

Winter 2022

Summer 2022

Summer 2020

2019 - 2020

EDUCATION

Grand Valley State University – *Padnos* College of Engineering and Computing, Grand Rapids, Michigan Bachelor of Science in Engineering, Major: Biomedical Engineering

• GPA: 3.45

PROJECT EXPERIENCE

Mini Sumo Robot/Line Following Robot Project

Objective: To design and build a functioning sumo robot that could imitate a real sumo wrestler

- · Benchmarked different robot designs using cardboard and other on-hand materials
- Chose the best design based on the restrictions of the project and within the specified budget
- Designed the robot in SolidWorks
- Programmed the robot in Arduino C
- Milled the robot body using CNC machines and assembled robot

Outcome: The robot functioned successfully, sensed the other robot and followed the line

WORK EXPERIENCE

Lafarge Holcim, Presque Isle, Michigan

MSHA Certified Miner

- Shadowed Quarry Engineers to produce accessible stone for aggregate customers
- Managed production piles of stone based on their chemical composition and dimension specifications
- Certified and worked with heavy equipment including 785 CAT Haul truck, skid loaders, aggregate conveyors, and primary stone crusher
- Learned about stone quarry supply chain beginning from the mining process to distribution of Lafarge Holcim product.

Culvers, Allendale, Michigan

Crew Member

- Helped to maintain operation of equipment and ensure working conditions
- Trained new employees and enforced proper procedures

Goldfish Swim School, Grand Rapids, Michigan

Guest Safety Supervisor

- · Structured and developed courses for various levels of swim and waterfront safety lessons
- · Protected the safety of all patrons as a Red Cross Certified lifeguard

LEADERSHIP AND EXTRACURRICULAR EXPERIENCE

FIRST Robotics, Grand Rapids, MichiganCollaborated with a team of 4 to design a robot that was built to fill a cargo ship	2022-2023
 East Grand Rapids Park and Recreation, <i>Grand Rapids, Michigan</i> Coached youth soccer camp, mentored kids with productive team skills and work ethic 	Summer 2022
 Habitat for Humanity, Grand Rapids, Michigan Built houses and actively aided in scheduled projects for Habitat for Humanity 	2021 - 2022

SKILLS

Software: SolidWorks/Cam, MS Excel, Word and PowerPoint, C Programming **Engineering**: GD&T, Arduino/Micro-controller, Benchmarking & Problem Solving **Hands-On**: CNC Mills, Basic Carpentry, Car Maintenance

*Pre-approved by GVSU to conditionally accept a co-op offer as of October 14, 2023