

Nash H. Bernhart

(817) 907-6194

nashbernhart@gmail.com

bernarn@oregonstate.edu

Education

Louisiana State University (LSU), Baton Rouge, Louisiana
Bachelor of Science, Electrical Engineering

August 2016 – May 2021

Oregon State University, Corvallis, Oregon
Bachelor of Science, Computer Science
Expected graduation: December 2023

May 2022 – Present

Class Projects

Design and Manufacturing of 12lb Combat Robot

August 2020 – May 2021

- Worked in a team to design a robot within budget to compete against the robots of other teams
- Emphasized use of additive manufacturing in project
- Designed robot with wireless control scheme utilizing Wi-Fi connected Raspberry Pi and control software written in Python controlling brushless DC motors and servo motors
- Documented in detail in digital notebook every step of the design, manufacturing, and comprehensive testing process in accordance to strict guidelines set by the course
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Experience

Square Robot, Houston, Texas

February 2022 – Present

Field Operations Engineer

- Plan, optimize, and execute non-destructive testing operations for underwater inspection robot in large above ground storage tanks containing water or petrochemicals for maximum floor coverage with ultrasonic sensor while avoiding obstacles within tanks
- Troubleshoot errors during operations on customer sites while minimizing downtime
- Execute test plans for improvement of current robotic systems or aid the development of new systems
- Service robot fleet in between inspection jobs to ensure correct and efficient operation for each job

Skills

Software: Python, C, C++, Javascript, ROS, HTML, Eagle PCB, Object Oriented Programming

Proficient with lab test equipment (oscilloscope, power supply, digital multimeter, function generator)

PCB design and layout

Circuit modeling with PSPICE