

# Nash H. Bernhart

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## Education

**Louisiana State University (LSU), Baton Rouge, Louisiana**

**August 2016 – May 2021**

Bachelor of Science, Electrical Engineering

**Oregon State University, Corvallis, Oregon**

**May 2022 – Present**

Bachelor of Science, Computer Science

Expected graduation: December 2023

## Experience

**Square Robot, Houston, Texas**

**February 2022 – December 2022**

Field Operations Engineer

- Plan, optimize, and 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

**Personal Robotics Group, Oregon State University**

**January 2023 - Present**

Undergraduate Research Assistant

- Research and develop methods for programming and controlling arm of Fetch robot
- Write ROS nodes to implement joint playback functionality on Fetch
- Assist the lab's PhD candidate in performing experiments utilizing these ROS nodes

## Skills

Programming languages: Python, C, C++, MASM, Javascript

Software Tools and Frameworks:

- ROS based robotics
- Linux based systems
- Web development using node.js and React.js
- PCB design and layout using Eagle PCB
- Circuit analysis and modeling with PSPICE