

JAMES STRONG

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EDUCATION

Texas State University

Bachelor of Science in Electrical Engineering

San Marcos, TX

December 2023

- Concentration: Computer Engineering

Bachelor of Science in Computer Science

December 2023

Minor in Applied Mathematics

WORK EXPERIENCE

Amazon.com

Seattle, WA

Software Engineering Intern

June 2021 - August 2021

- Successfully created and implemented an in-house solution leveraging AWS Cloud Development Kit to streamline and facilitate the seamless upload of personal employee data to the company's database system.
- Engaged in a comprehensive 4-week Software Development Engineer bootcamp with a primary emphasis on project design, DevOps best practices, and the development of robust, maintainable code.

Nanofabrication Research Service Center at Texas State University

San Marcos, TX

Lab Technician

October 2018 – December 2023

- Demonstrated expertise in repairing and maintaining cleanroom lab equipment and machinery, ensuring optimal functionality and efficiency.
- Supported nano fabrication equipment and process training, offering valuable assistance to trainees.
- Proficiently led and organized industry-leading equipment restoration projects.

PROJECTS

Autonomous Object Retrieving Robot

January 2023 – December 2023

- Project manager and key contributor in the design and engineering of an autonomous robot with boundary sensing, item localization, and pushing/pulling capabilities. Led the development of navigation and object detection subsystems.

Smart Farming Planter

May 2022 - December 2022

- Conceptualized and executed a "smart planter" project, incorporating a diverse array of sensors, Arduino, and Raspberry Pi technology. This innovative solution enabled real-time monitoring, data storage and crop comparison in precision agriculture.

Nano-Master NRP 4000 Revitalization

June 2019 - August 2022

- Led comprehensive research and restoration of the Nano-Master NRP 4000 system, replacing plumbing, and repairing pumps and electronics, fully restoring chemical vapor deposition and reactive ion etching chambers.

Arduino Water Flow Sensor

October 2019 - December 2019

- Developed a water flow sensor utilizing Arduino and Raspberry Pi technologies to monitor and track water flow within laboratory premises. The sensor displayed real-time data on LCD screens and sent automated email notifications for efficient monitoring and management.

AWARDS AND RECOGNITIONS

Industry Choice: Best Project

December 2023

- Autonomous Object Retrieving Robot was voted best project by industry judges for outstanding results, innovation, and exceeding expectations. This award reflects a commitment to excellence and notable contributions to project success within the industry.

Outstanding Mentor Award

December 2023

- Recognized for outstanding mentorship in diverse projects, demonstrating leadership, effective communication, and fostering collaboration for team success.