

# Robert Clukey

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## OBJECTIVE

Seeking an entry-level engineering role with growth opportunities in robotics and mechanical design.

## EDUCATION

**Texas A&M University**, College Station, Texas

May 2025

Bachelor of Science in Robotics Engineering (Interdisciplinary Engineering)

Minor in Electrical Engineering

GPA: 4.0, Summa Cum Laude

### Certifications

Introduction to Artificial Intelligence Using Python, Harvard University

September 2023

- Studied TensorFlow and large language models.

Web Development Using Python and JavaScript, Harvard University

September 2024

- Used HTML, Python, and JavaScript to build custom websites.

### Coursework

Embedded Systems Development in C – Applied C programming language to Arm STM Microcontrollers.

Electronics – Designed, built, and tested analog amplifiers to meet design specifications.

System Safety Engineering – Applied system safety techniques to semiconductor manufacturing process.

## PROJECTS

**Interdisciplinary Engineering**, Texas A&M University

August 2024 – May 2025

*Subsea ROV (Senior Capstone)*

- Led team of 5 in development of chassis and propulsion subsystems for subsea remotely operated vehicle (ROV).
- Designed to be smaller, more maneuverable, and cheaper than current ROV designs.
- Developed to be easily scalable to fit needs of customers, and neutrally buoyant with self-orienting capabilities.

**Mechanical Engineering**, Texas A&M University

August 2024 – December 2024

*Vending Machine*

- Fabricated and tested method for implementing vending machine through Arduino Mega microcontroller.
- Designed servo control algorithms on Arduino microcontrollers, integrating real-time sensor input using I2C.

### Personal Projects

- Personal website: Coded personal web-based application using Python, HTML, JavaScript, CSS, and dynamic content.

## ACTIVITIES

**Interdisciplinary Engineering Association**, Texas A&M University

September 2022 – May 2025

*Treasurer*

- Managed budget for 55 organization members and solicited companies with sponsorship opportunities.
- Advised freshmen about Interdisciplinary Engineering during engineering-wide events.
- Tutored and supported sophomores who had similar aspirations.

**Phantom Invents**, Texas A&M University

- Teams of 6 competed to create best solution to different problems military is currently facing.
- Devised, prototyped, and presented solutions to stakeholders and military personnel.

*Command Post System*

June 2023

- Improved command post structure to decrease set up and tear down times by 70%.

*Drone Defense System*

May 2024

- Created multilayered defense system against drone warfare, using RF-jamming and GPS-spoofing.

## SKILLS

Proficient in: Python, C/C++, HTML, MATLAB, SolidWorks, Multisim, Arduino, FPGA

Advanced in: Verilog, Git, LaTeX, Java, Fusion 360, I2C, ROS, Simulink, NI Analog Discovery 2

Knowledgeable in: CSS, SQL, JavaScript, LT Spice, NI LabView, STM32 Microcontrollers

Languages: Intermediate in – Italian, Spanish, Swedish