# Robert Clukey

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**OBJECTIVE**

Seeking an entry-level position related to robotics and/or mechanical design.

**EDUCATION**

**Texas A&M University,** College Station, Texas May 2025
Bachelor of Science in Robotics Engineering (through 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.

**RELATED 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**

**Department of Multidisciplinary Engineering,** Texas A&M University August 2024 – May 2025
*Subsea Remotely Operated Vehicle (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, neutrally buoyant, and cheaper.

**Department of 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 – Present
*Treasurer, Alumni Advisor*
- Managed budget for 55 organization members and solicited companies for sponsorship.
- Advised freshmen about the relatively new major during engineering-wide events.
- Tutored and supported sophomores who had similar aspirations.

**Phantom Invents,** Texas A&M University
- Selected as one of 6-member competitive team, to create best solution for current military challenges.
- 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**

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|---|---|
| Proficient in: | Python, C/C++, HTML, MATLAB, SolidWorks, Multisim, Arduino, FPGA |
| Advanced Knowledge of: | Verilog, Git, LaTeX, Java, Fusion 360, I2C, ROS, Simulink, NI Analog Discovery 2 |
| Familiar with: | CSS, SQL, JavaScript, LT Spice, NI LabView, STM32 Microcontrollers |
| Intermediate Knowledge of: | Italian, Spanish, Swedish |