Robert Clukey

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OBJECTIVE
Robotics Engineer seeking a full-time position that focuses on robotics, circuitry, and CAD.

EDUCATION
Texas A&M University, College Station, Texas   May 2025
Robotics Engineering – B.S. Interdisciplinary Engineering
Electrical Engineering Minor
Summa cum laude, GPA: 4.0, Dean's Honor Roll

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
Mechatronics – Devised and prototyped a vending machine using digital logic and analog circuits in mechanical systems
Dynamics and Modeling of Mechatronic Systems – Derived EOMs for mechatronic systems involving moving media
System Safety Engineering – Applied system safety techniques to semiconductor manufacturing process

Certifications
Introduction to Artificial Intelligence Using Python Certificate, Harvard University   September 2023
- Studied TensorFlow and other large language models.

Web Development Using Python and JavaScript Certificate, Harvard University   September 2024
- Used HTML, Python, and JavaScript to build custom websites.

PROJECTS
Subsea ROV (Senior Capstone)
- Led development of chassis and propulsion subsystems for smaller, more maneuverable, and cheaper, next generation subsea remotely operated vehicle (ROV) design.
- Designed to be similar in shape and size to human torso, easily scalable to fit the needs of customers, cheaper than current industry leaders, and neutrally buoyant with self-orienting capabilities.

Vending Machine
- Fabricated and tested method for implementing vending machine with capacity of handling coins and products with Arduino Mega microcontroller.
- Developed code, electronics, and hardware to control vending machine.

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 and spoke with companies about sponsorship opportunities.
- Advised Freshmen about Interdisciplinary Engineering and what discipline entails.

Phantom Invents, College Station, Texas
- Participated in weeklong workshop with students and military to solve problems military is currently experiencing.
- Devised, prototyped, and presented solutions to stakeholders and military personnel.
- June 2023 project: Improved command post structure to decrease set up and tear down times by 70%.
- May 2024 project: Created multilayered defense system against drone warfare as seen in Russo-Ukrainian War.

SKILLS
Programming Languages: Python, C/C++, Verilog, HTML, MATLAB, LaTeX, Java, CSS, SQL, JavaScript
Engineering Software: SolidWorks, Fusion 360, I2C, ROS, Multisim, LT Spice, Simulink, LabView
Engineering Hardware: Arduino, STMicroelectronics, NI Analog Discovery 2
Languages: Level 5 (ILR) – English   Level 3 (ILR) – Spanish
                                              Level 3 (ILR) – Italian   Level 3 (ILR) – Swedish