Robert Clukey

(512)-203-9598 linkedin.com/in/robert-clukey rclukey.github.io bobby@clukey.org

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 (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 – May 2025
Treasurer
- 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

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

Kalahari Resorts and Conventions, Round Rock, Texas June 2025 – Present
Lifeguard

- Monitored pools and slides to ensure safety of clients and associates.
- Ensured guest satisfaction throughout entire resort.

ASAP Stone And Landscape Supply, Austin, Texas May 2020 – August 2021
Part-time Employee

- Worked with clients to build relations and give them a good experience at ASAP.
- Was instrumental in closing several multi-thousand-dollar sales.

Toys for the Elderly

- Designed and created a prototype toy that can be used by elderly people to stimulate their mind to prevent cognitive decline, memory loss, and the loss of fine motor skills.
- Designed and built a marble maze controlled by tipping the maze tray using precise movements to complete the maze.

Electric Skateboard

- Currently in the design process with SolidWorks.
- Learning how to code in the Arduino IDE to control the electric skateboard.
    - Hand-held remote will control the speed of the skateboard.
    - Will be able to set a cruise control on the skateboard with the remote.
    - Will contain a digital display of battery power remaining in the skateboard.
    - Possibility for regenerative braking.

ACTIVITIES

Kung-Fu and Tai-Chi August 2009 – Present
4^{th} Degree Black Belt

- Multiple first-place trophies and two grand champion trophies.
- Instructed students in exercises, strength training, and sparring.