

Kennedy Echeverry – kenech8@gmail.com

Education/Certifications

B.S. Computer Engineering, Minor in Computer Science - University of Oklahoma Class of 2019
Texas Board of Professional Engineers - Engineer-in-Training #69187

Work Experience

Principal Instructor of Web Technologies and Curriculum Designer – Rex Programming

Taught students how to control drones and robotics connected to phones/computers via Bluetooth and WiFi.
Used (C++, Circuits, Bluetooth Low Energy)

Student Engineer - OU Health Sciences Center

Programmed a microcontroller connected to a cigarette lighter to be used in smoking cessation studies.
Used (C, Android Application, IOT, Arduino)

Teaching Assistant – University of Oklahoma

Assisted STEM students by holding office hours for tutoring sessions, resolving grading issues, and administering tests.

Skills Summary

Languages: C, C++, STM-HAL, Python, Java, C#

Programs: STM32 Cube IDE & MX, Keil uVision, Arduino, KiCAD, ARM Mbed, Eagle, MATLAB, Github

Teamwork: In person or remote collaboration on teams with different time zones, schedules, cultures, and strengths

Extracurricular: Web development and Video/Music editing, making promotional videos for teams and projects

Projects

Power Electronics Interface (PEI) Project

Theoretical understanding of how timers (PWM - duty cycle and frequency) and analog to digital conversion (ADC measurements) can be used for the controls of PEIs.

Embedded System Mastermind Game

Recreated the classic board game “Mastermind” on an NXP LPC1768 microcontroller controlled with a numerical gamepad and displayed on an LCD.

LabView Autonomous Robot

Collaborated with a team to create a self-driving robot that used NI LabView to read from inputs such as infrared sensors, ultrasonic sensors, and gyroscopes.

Relevant Coursework

- | | |
|---|--------------------------------|
| ▪ Programming Structures and Abstractions | ▪ Microprocessor System Design |
| ▪ Data Structures | ▪ Digital Design |
| | ▪ Control Systems Engineering |

Honors

OU Scholars Program: Distinguished Scholars Award
Ernest W. Reynolds Engineering Scholarship
Dean’s Honor Roll - Fall 2017, Spring 2018

**References available upon request*