Tristan John de Lemos

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EDUCATION

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Computer Engineering

June 2023

Related Coursework: Computer & Digital Design, Computer Programming Series, Electrical Circuit Analysis Series, Operating Systems, Mechatronics, Microcontrollers and Embedded Systems

SKILLS

Programming Languages: C, Java, Python, SystemVerilog, Dart

Hardware Testing Devices: Function Generator, Digital and Analog Multimeters, Oscilloscope, DC Power Supply, Op Amp

Circuit Board

Applications: Github, VScode, Xilinx, PSpice, Pycharm, Microsoft Office Suite (Word, Excel, PowerPoint)

Languages: Fluent English and Basic Korean

PROJECT HIGHLIGHTS

Bypassing Voice Assistants: Developed a security testing prototype using an Arduino to output a .wav file via a laser, successfully bypassing voice recognition systems on devices such as Amazon Alexa.

Turret Control System: Developed a Python based FSM on a STM32 microcontroller to control motors and filter pictures to fire a NERF turret at the warmest spot of the picture.

Airable Ventilator: Designed and developed a Flutter based app to integrate health data from wearable devices (e.g. Apple Watch) with ventilator hardware. Collaborated with a multidisciplinary team to complete hardware design and web development, enabling dynamic ventilator adjustments based on user health metrics.

Software Development: Programmed an average of 2 software programs weekly across multiple programming languages, honing problem-solving and coding efficiency.

Hardware: Constructed and tested multiple electrical circuit systems using various hardware testing devices

LEADERSHIP EXPERIENCE

Substitute Teacher

8/23 - 1/24, 3/25 - Present

- Castaic Union School District; Santa Clarita, California
- Taught middle school and elementary school ages
- Managed classroom environments and maintained effective communication with students and faculty

English Second Language Teacher

2/24 - 3/25

Sogang Language Program; Suwon, South Korea

- Delivered 40+ hours each week of English as a second language
- Taught 50+ students each week
- Taught critical thinking, reading, and living skills
- Collaborated with native Koreans and foreign English speakers to improve the coursework for students