

Brayden Daly

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EDUCATION

California Polytechnic State University, San Luis Obispo

8/2022 - Present

Bachelor of Science in Electrical Engineering - GPA: 3.54

Relevant Coursework: Electric Circuits I, Digital Design, Calculus, Linear Analysis I, Laboratory experience with Arduino, Breadboards, Digital Multimeter, and Oscilloscopes

Current Coursework: Digital Design II (RISC-V OTTER) and Assembly Code, Circuits II, Data Structures

LEADERSHIP & EXPERIENCE

Cal Poly Racing FSAE:

Wire Harnessing Subsystem Lead

4/2023 - Present

Member

9/2022 - 6/2023

- Design, manufacture, test, integration, and maintenance of Front, Rear, Engine, and Dyno harnesses on both cars
- Collaborate with mechanical leads, circuit boards lead, sensor integration lead, and electrical tech director

E-Car Discharge Board:

- Designed discharge board for E-Car with Altium and utilized soldering and reflow stations to manufacture board
- Board utilizes relay and MOSFET to provide power to motor and act as safety shut off switch for battery cells

Wire Harnessing:

- Collaborated with teammates to manufacture the front and rear harnesses for both C-Car and E-Car
- Utilized RapidHarness to create design of C-Car Engine Harness for 2024 Season

Testing:

- Utilized oscilloscope, power source, multimeter to test continuity and debug issues in PCBs and harnesses

TECHNICAL PROJECTS

Vector Space Calculator Website

6/2023 - Present

- Utilizing Python to operate various functions that manipulate matrices and determine vector space characteristics
- Developing front-end UI and back-end of website for Python logic with Django, CSS, HTML

Whack-a-Mole BASYS-3 FPGA

5/2023 - 6/2023

- Programmed FPGA with System Verilog to create Whack-a-Mole game that stored and added points with user input

Digital Analog Converter for 4-bit Audio Processing

5/2023 - 6/2023

- Utilized SolidWorks, to design and manufacture 3D-printed housing compartment to protect DAC
- Designed DAC with two inverting amplifiers to convert outputted digital signals from arduino to analog signal using EAGLE

- Worked with team to create audio processing system with laptop, arduino, level-shifter op-amp circuit, DAC and speaker

RFID Door Locking System

11/2022 - 12/2022

- Programmed arduino RFID reader to scan UID address and grant access to RFID cards with correct UID address

Miniature Gaming Console

11/2022 - 12/2022

- Built console with arduino, LCD, joystick, and buttons
- Programmed game into console where character, controlled by joystick, evades obstacles on LCD

SKILLS

- Python, C, Autodesk AutoCAD, RapidHarness, SolidWorks, Fusion360, Altium, Xilinx, LTspice, EAGLE, MATLAB
- Team-Oriented, great at communicating with others

AWARDS

- Cal Poly Dean's List Fall and Spring Quarters 2022-2023
- Dragon Kim Foundation \$5,000 Grant Winner - 2020