David Armijo

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EDUCATION

B.S in Computer Engineering May 2026
Texas A&M University – College, Station, TX GPA: 3.802/4.00

RELEVANT COURSEWORK

ECEN: Intro to Digital Hardware Systems Design (Verilog), Electric Circuit Theory, Signals and Systems (Filter Design and System Analysis), Computer Architecture (ARMv8, Verilog, Behavioral Testing Scripts), Physics Electricity and Magnetism

CSCE: Data Structures and Algorithms, Intro to Operating Systems, Deep Learning

EXPERIENCE

PC Builder, Self-Employed, TX June 2022 – Present

- Communicated with 5 clients to curate pc parts and built computers from them according to their performance expectations and budget constraints in a timely manner

Volunteer Teacher, Steel City Codes Summer Virtual Camp, TX June 2021 – July 2022

- Provided lessons to advanced programmers about data structures and sorting algorithms in Java and Python.
- Improved class participation by 30% by expanding and optimizing learning materials to be more effective in teaching programmers at all skill levels.

PROJECTS

Personal Virtual Piggy Bank, TAMUHack January 2024

- Drafted an embedded system prototype designed to help with juvenile financial literacy which utilizes an ESP-32 microprocessor as the backend and a 4D Systems touchscreen display I/O device as the frontend within 24 hours in collaboration with four teammates.
- Developed USB and Wi-fi port communications between the ESP-32 and the display using the C programming language by importing libraries and implementing protocols and functions according to online documentation.

Traffic Light Controller, Digital Systems Project November 2023

- Designed Moore Finite State Machine (FSM) based on given parameters and identified the I/O on the FPGA.
- Implemented behavioral Verilog from the FSM by using flip-flops and counters, and simulated and synthesized the controller onto the FPGA board.

Monopoly Simulator, Personal Hobby Project September 2021 – October 2021

- Designed the program by translating the original game's object traits and organized them into 1 interface, 8 object classes, and 4 data structures such as arrays, stacks, queues, and linked lists.
- Extrapolated the recorded data in output files to predict outcomes based on given parameters.
- Expedited the data collection and extrapolation process by over 900 times compared to doing it by hand.

LEADERSHIP

Chapter Head, Steel City Codes, Houston, TX July 2021 – May 2022

- Created computer science curriculum to effectively educate and inspire 22 students in an underrepresented middle school while managing limited resources.
- Coordinated with 3 volunteer teachers to assist in teaching Java and Python lessons to students.

HONORS AND AWARDS

Hispanic Scholarship Fund, HSF Scholar June 2022 – Present

- Selected alongside the 10,000 students from a broad and talented pool of applicants nationwide from 4 stages of review.

TECHNICAL SKILLS

Software: System C (Beginner), Linux/Unix OS and Shell, Verilog (Xilinx), Python (Intermediate), Java (Intermediate), C++ (Intermediate), GDB, Windows PowerShell (Beginner), Autodesk Inventor, Microsoft Office Suite, ARM v8 Assembly, Electronic measurement equipment (oscilloscope, multimeter, etc), LTSpice Simulation
Bilingual in Spanish and English

INVOLVEMENT

Institute of Electrical and Electronics Engineers (IEEE) August 2023 - Present
Society of Hispanic Professional Engineers (SHPE) August 2022 – Present
Society of Women Engineers (SWE) September 2022 – Present