

JACK WILLIAMS

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Education

Texas A&M University, College Station, TX

Class of 2026

Bachelor of Science in Computer Engineering

GPA: 3.16 — Credit Hours: 45

Dallas College & Collin College

Completed 2023

GPA: 4.0 — 48 Credit Hours

Combined GPA (Texas A&M + Community Colleges): 3.6

RELEVANT WORK EXPERIENCE

Precision Warehouse Design, Automation Intern

Dec 2022 - Jan 2023

Collaborated with a team of engineers to create automation such as an HEB trash conveyor system utilizing Studio Logix 5000 automation software. Constructed electrical control cabinets utilizing high and low-voltage circuits. Utilized communication skills to interact with customers and deploy onsite infrastructure and enterprise solutions.

PROJECTS

Single-Cycle ARMv8 Processor Design

10/2024

Built a single-cycle ARMv8 processor in Verilog, implementing a main control unit and integrating components like ALU, register file, and memory to support instructions (LDUR, STUR, ADD, B, etc.). Simulated with test programs to ensure correct operation of control signals and instruction execution.

Starfall, 2D Unity Video game

06/2024 - 08/2024

Developed a 2D, side-scrolling game titled "Starfall" using the Unity game engine, demonstrating game design and development proficiency. Leveraged C# programming language to implement game mechanics, including player movement, collision detection, infinite gameplay and enemy AI behavior.

Rogo Firmware Development

09/2023 - 11/2023

Collaborated with a startup team of developers to create firmware for Rogo fitness tracker. Developed C and C++ code to program LED indicators and Bluetooth functionality.

TECHNICAL STRENGTHS

Languages (Proficient)

C++, C#, C, Python, ARMv8 Assembly

Hardware Design Language

Verilog

Other Skills

Linux, Pc Building, Unity, LaTeX, Visual Studio, Git, Github

EXTRACURRICULARS

Aggie Lemons Racing, Electrical Subteam

08/2024 - Present

Collaborated with a team to build a low-cost endurance race car for the 24 Hours of Lemons competition. Designed, fabricated, and installed a telemetry system to monitor real-time data during races. Installed and troubleshot various electrical components, ensuring optimal performance and safety.

PROFILES

LinkedIn

<https://www.linkedin.com/in/jack-williams-665990261/>

Github

<https://github.com/TheLongWinter>

ACHIEVEMENTS

Eagle Scout

2020

National Hispanic Recognition Scholar

2021-2022