

# Daniel Davis

Texas, USA • (979) 777-0575 • ddavis6q@tamu.edu • [danielwd27.github.io/Portfolio/](https://danielwd27.github.io/Portfolio/)

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## EDUCATION

**Texas A&M University, College Station, Texas**

*Bachelor of Science in Computer Engineering, Minor in Mathematics (GPA: 3.49), May 2027*

## TECHNICAL PROJECTS

**Envelope – Internet-Connected Message Display, Winter 2025**

- Developed a real-time, bi-directional messaging device using an ESP-32 and a touchscreen display, incorporating features such as a Wi-Fi manager, themes, brightness controls, and live clock in C++.
- Optimized performance with multithreading, ensuring animation fluidity and simultaneous network calls.
- Designed and implemented a lightweight UI with bitmap art, lowering memory overhead and render times.

**Trashy – Smart Recycle Bin, Fall 2026**

- Trained and implemented a custom computer vision model with 600+ collected images with Python.
- Engineered an auto-sorting trash bin combining a Raspberry Pi, camera, and SG90 servo motors.

**Arduino Measurement Menu, Summer 2025**

- Combined Arduino Nano, Rotary Encoder, SPI LCD, and various sensors to develop an interactive interface.
- Implemented selection and display logic with C++ and Finite State Machines, determining behavior based on user input and current conditions.

## TECHNICAL SKILLS

- C/C++, Python, Java, JavaScript/TypeScript, C#, Assembly, Verilog, HTML, React, MATLAB, R, PostgreSQL
- SPICE, Multisim, SolidWorks

## PROFESSIONAL EXPERIENCE

**Mays Business School - Technology Services, Texas A&M University, College Station, Texas**

*Student Technician*, August 2024 – Present

- Resolved 400+ support tickets with root-cause analysis to maintain 500+ end-users.
- Develop and document Standard Operating Procedures for incident troubleshooting and ticket management to mentor and train incoming student employees.
- Manage and deploy devices using Active Directory, Microsoft Intune, and JAMF for standardized configurations and security compliance.

**Hullabaloo U, Texas A&M University, College Station, Texas**

*Peer Mentor/TA for FYEX 101*, August 2024 – December 2024

- Mentored a class of 25 students, meeting one-on-one with each to provide academic, professional, and personal support.
- Independently designed and presented lectures on key student success strategies, time management, and campus resources.

## ORGANIZATIONAL INVOLVEMENT

**Texas A&M Fall Leadership Conference, Texas A&M University, College Station, Texas**

*Director of Delegates*, November 2025 – Present

- Collaborated to host Aggie Connect, a one-day leadership event with over 50 student leader attendees.

**Robotics Club, American School of Doha, Doha, Qatar**

May 2023 - 1<sup>st</sup> place in a national battle bot competition.