

Joel Mathew

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Education

College of Engineering, Texas A&M University, College Station

~ August 2023 to May 2027

BS in Electronics Systems Engineering Technology – Minor in Cybersecurity

Dean's Honor Roll

GPA: 3.05 | Major Coursework GPA: 3.70

Independence High School

~ August 2019 to May 2023

Skills & Certifications

Software - *Python, C++, Java, Linux, VHDL*

Hardware / Electronics – *Embedded C, Digital & Analog Circuit Design, FPGA Board*

Systems / Tools – *Git/GitHub, STM32 Development, Circuit Simulation (SPICE), Quartus Prime, KiCad*

Certifications:

- Cisco Certified Technician – Cybersecurity
- Certified IT Specialist in Cybersecurity
- Google Cybersecurity Professional Certificate

Projects

Portfolio at joelmathew27.github.io/

ESP32 Audio Playback Device (*In Progress*)

- Prototyped and validated audio flow using Raspberry Pi to test I2S communication and timing behavior
- Created schematics and diagrams in KiCad to draft component connections and signal flow

STM32 Secure Note-taking Device (*In Progress*)

- Established firmware structure for offline embedded system focused on secure data storage
- Implemented input handling with chording, key debouncing, and symbol lookup tables
- Documented system security considerations to guide future feature implementations

FPGA State-Controlled Motor

- Designed a state-based control system using hardware description logic to manage motor behavior
- Implemented PWM generation to control motor speed and operation
- Verified functionality through waveform simulation testing as well as hardware testing

Experience

Corps of Cadets, Texas A&M University

~ August 2023 to Present

Squad Leader (2025 – 2026), Team Leader (2024 - 2025)

- Developed leadership, discipline, and operational reliability within a military-structured environment
- Maintained performance in high-pressure environments while adhering to strict time requirements
- Enforced standards and procedures in a chain of command while guiding and developing junior members
- Managed time and responsibilities while balancing engineering coursework

Fish Food Studios

~ January 2024 to Present

Co-Founder / Lead Developer (2024 – Present)

- Developed core gameplay systems while overseeing technical direction and system architecture decisions
- Designed modular systems to support iterative development and future scalability, allowing rapid prototyping
- Managed source control, feature planning, and production timelines by coordinating development milestones

TAMU Cybersecurity Club

~ August 2023 to Present

- Practiced hands-on hardware security in workshops focused on embedded systems and physical interfaces
- Completed Cisco networking labs covering routing, switching, and foundational network configuration concepts
- Actively preparing for CCNA certification through labs - practicing concepts in a study group & simulations

Chillenium Game Jam

~ February 2024 and 2025

- Collaborated in a small team to design and prototype a game under a strict 48-hour time constraint
- Communicated effectively with team members to resolve design conflicts, prioritize tasks, and ensure team alignment on project goals and vision

Interests – Astronomy, Music Composition & Performance, Triathlons (IronMan), Video Game Development