Jeremy Murray

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EDUCATION

Texas A&M University, College Station, Texas   May 2025
Bachelor of Science in Computer Science   GPA: 3.65

ROBOTICS EXPERIENCE

FIRST Tech Challenge Robotics, FTC 14020 - *Software Lead*   September 2018 - May 2021
- Led design and development of software for FTC 14020 making key decisions in the team's software capabilities and autonomous routines.
- Developed autonomous and driver-controlled functions for an evolving robot design and strategy including vision systems, odometry, motion profiling, driver telemetry and driving assists.
- Coordinated autonomous routines with the design team based on expectations of software and hardware capabilities.
- Adapted autonomous software during competition in order to work collaboratively with other robots in a competitive environment.
- Communicated with design and build teams to inform future design decisions around software limitations, as well as expand options available to other teams due to software capabilities.

PROJECTS

Maroon Engine - *Physics Team*   September 2022 - December 2022
- Worked with a team of 13 students to create a video game engine from scratch using C and C++, supporting a 2D side scrolling platformer.
- Prototyped a system for collision detection and resolution within the physics engine for 2D bounding boxes.

Portfolio Website - *Developer*   April 202 - Present
- Developed and maintained portfolio website to display skills, experience, and history using HTML, CSS, and Javascript. Hosted using free service providers.

WORK EXPERIENCE

Texas A&M System Cybersecurity Operations Center - *Student Worker*   September 2022 - Present
- Cybersecurity analyst position as part of the Defence Cyber Leadership Development Program with a team of student workers.
- Investigated detections of potentially malicious network activity across several Texas A&M System campuses using ticket system
- Utilized numerous analysis tools to give a detailed report to determine if network activity is low risk, or report to cybersecurity professionals at the center in the case of malicious activity

SKILLS

Software: C, C++, C#, Java, Javascript, HTML, CSS, Python
Computer Aided Design: Autodesk Inventor, Onshape
Languages: Conversational level spanish

AFFILIATED ORGANIZATIONS

Texas A&M Corps of Cadets
Texas A&M Naval ROTC
Texas A&M Defence Cyber Leadership Development Program
Texas A&M Corps Cyber Operations Special Unit