Jeffrey Morris

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Stephenville, TX

Education

Tarleton State University – *Stephenville, TX* August 2023 – Expected May 2027
Pursuing B.S. in Electrical Engineering GPA: 3.67
Minor in Computer Science Honors College & Dean's List
Relevant Coursework: *Circuit Theory, Electronics I, C & Java Programming, Calculus I-III*

Experience

Independent Contractor – Embedded Engineer July 2024 – Present

- Design production & assembly ready PCBs using KiCAD EDA
- Develop custom firmware for popular 32-bit microcontrollers in C/C++
- Collaborate and communicate with others to create optimal designs
- Create and maintain comprehensive documentation for product designs
- Manage project timelines and deliverables to meet project deadlines

Dick Smith Library – Student Worker August 2023 – Present

- Provide friendly and efficient assistance to patrons by addressing inquiries, locating resources, and troubleshooting technology issues
- Organize inventory, and maintain library collections to ensure items are accessible, properly categorized, and in good condition
- Complete additional non-standard projects and oversee team progress to ensure completion of all tasks

Projects

Ranger – *SWYFT Robotics* September 2024

- Precision LiDAR sensor for competitive robotics using simple analog or digital interfaces
- Solely designed PCBA & firmware using popular 32-bit microcontrollers & C
- Technical documentation for support and usage of the device

CANnect – *SWYFT Robotics* January 2025

- Wiring solution for combining CAN networking and power over common Ethernet cabling
- Simplifies user wiring by providing all necessary ports while transporting data via one cable
- Comprehensive technical documentation to introduce complex topics at a simplistic level and allow for quick incorporation of the wiring system

Activities

FIRST Robotics Competition / BEST Robotics – Tigerbotics – *Glen Rose, TX* August 2020 – Present

- Provide and assist students with hands-on experience designing, building, and programming both industrial-sized and small-scale robots
- Impress STEM skills and life lessons to students such as problem-solving, teamwork, leadership, and outreach
- Assist students in running their team as a business and connecting designs to real world problems
- Innovate in mechanical, software, and electrical designs teaching students that iterative design involves failure

Skills

Technical: KiCAD EDA, LTSpice, Schematic & PCB Design, Technical Writing
Programming: C, C++, Java, MATLAB, Python
Office Applications: Word, Excel, PowerPoint, Outlook
Interpersonal: Collaboration, Leadership, Customer Service

Interests

Robotics, Cooking, 3D Printing, Graphic Design, Tennis, Line Dancing