Angela Suresh | angelasrsh@gmail.com

angelasrsh.github.io | Telephone: 901-487-5491 | LinkedIn: linkedin.com/in/angela-suresh

Relevant Coursework

Embedded Systems, Circuit Theory, Software Design, Multivariable Calculus
Major area of interest: Software Development, Integrated Circuits, and Embedded Software

Skills

- **Certifications**: Cisco NetACAD: Introduction to Cybersecurity - 2021
- **Programming Languages**: C, C++, ARM Assembly, HTML/CSS, Debugging
- **Tools**: KeilV5, Linux, Git, CLion, Eagle, KiCad, LTSpice, VSCode, Arduino, Esp32, STM32Cube IDE, Oscilloscopes, AD2 Waveforms, Power Supplies, Sharepoint, Unity, Adobe Premiere Pro, After Effects, Photoshop, PowerPoint
- **Interpersonal Skills**: Collaboration, Team Management, Self-Motivated, Reliable

Work Experience

Longhorn Racing, Electronics Telemetry Engineer **Aug 2022 - Present**

- Current project: Battery Control/Management System PCB: Designing PCB to capture temperature and voltage data from lithium ion cells.
- Watchdog PCB: Utilized KiCad to design a circuit for analyzing signals from analog and digital inputs. Converted signals into CAN and developed the corresponding PCB standardized subsheet for the telemetry system within the electric car.
- Electric Car Underglow: Developed and tested a PCB integrating ESP32-WROOM MCU and FASTLed software libraries to illuminate addressable leds. Used C++ to implement multiple LED light configurations through Platform.io in the Arduino framework. Tested using power supply.

Cisco, Cisco High Externship Program Intern **Jun 2022 - Aug 2022**

- Organized activities and session flow for 20+ students
- Facilitated engagement calls with Cisco executives/employees across the world
- Presented highlighting program metrics and offering solutions and insights
- Reorganized and leveraged a SharePoint team site
- Designed social media posts for Instagram and LinkedIn

Intro to Embedded Systems Project, Handheld Game Device

- Developed an embedded system to run a personalized game with C++ in Keil IDE using Arm Cortex-M4F microcontroller, TM4C123G. Created 6-bit DAC for sound output, ADC for potentiometer input and utilized serial communication with UART. Designed corresponding PCB with full implementation of embedded system.
- Used Digilent Analog Discovery 2 Waveforms logic analyzer to perform relevant measurements.

Personal Portfolio Website

- Designed and developed personal portfolio website using HTML, CSS, JavaScript.

Embedded Systems Project, Locking Device

- Utilized Java and Arduino to create a personal locking system to simulate automation of home technology.

Education

The University of Texas at Austin (August 2022 - May 2026)
Bachelor of Science in Electrical and Computer Engineering - *Honors*