

Wilson Yang

Sachse, TX, 75048 • 469-732-0727 • wilsonyangr@gmail.com

www.linkedin.com/in/wilson-yang00

Profile:

Computer Engineering graduate with 3+ years of experience in embedded systems design and development. Proven ability to design and implement hardware and software solutions for complex embedded systems. Expertise in C++, Python, Java, and MATLAB.

Education

Bachelor of Science in Computer Engineering

The University of Texas at Dallas, Richardson, TX

Graduation Date: **June 2023**

GPA **3.129/4.0**

Relevant Courses: Digital Circuits, Embedded Systems 5G Primer, Fundamentals of Cellular Communication 5G, 5G NR Technical Training

Technical Skills

- **Development Tools:** Matlab, TinkerCAD, Energia, Solidworks, Git, Keil, J-Link, html, CCS, Visual Studios Code, IAR
- **Embedded Hardware Platforms:** Microcontrollers (e.g., ARM Cortex-M series), Arduino, Raspberry Pi, ESP32
- **Communication Protocols:** SPI, UART, I2C, Bluetooth, Wifi, USB
- **Operating Systems:** RTOS, Linux
- **Software Development:** Firmware Development, Linux Kernel Development
- **Security and Safety:** Security Protocols, Safety-Critical Systems
- **Device Drivers and Optimizations:** Device Drivers, RTOS Kernel Tuning, Power Management, Debugging
- **Testing and Integration:** Automated Testing, Continuous Integration/ Continuous Deployment (CI/CD)
- **Design Patterns and Signal Processing:** Software Design Patterns Signal Processing
- **Agile/ Scrum**

Personal Projects

1. **Digital Thermometer** **June 2022**
 - Designed and coded an LCD display with Arduino to measure and display temperature in Celsius and Fahrenheit.
2. **Seven-Seven Segment Display using MSP432** **Oct 2021**
 - Programmed a seven-segment display with Energia on MSP432 LaunchPad for pre-sequenced numbers.
3. **Digital Alarm Clock using TM4, EDUMKII and CC2650MA** **Currently Working On**
 - Designed a multi-functional digital alarm clock with temperature and humidity display.
 - Implemented three distinct modes:
 - Set Time: Allows for manual time adjustment and customization.
 - Alarm: Enables users to set multiple alarms with customizable tones and recurrence options.
 - Remote Mode: Utilized Bluetooth connectivity for remote control and monitoring..
 - Integrated additional features such as:
 - LCD backlight control for optimal display visibility.

Work Experience

Meal Prep, **Chipotle**, Richardson, TX

Oct 2020 - Dec 2020

- Prepared meals according to Chipotle's high-quality standards, ensuring customer satisfaction.
- Exceeded company cleanliness specifications by maintaining a clean and organized work environment.

Organizations

Member

Chinese Student Organization

Aug 2018 - June 2023

- Learned and promoted Chinese culture.

Secretary

Dallas China Care

Aug 2018 - June 2020

- Volunteered in the Chinese community.