



Daniel Yu

 Portfolio

 GitHub

 LinkedIn

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 512-968-5454

EDUCATION

Master of Science, Engineering Technology

Graduation: May 2026

Texas A&M University

Bachelor of Science, Engineering Technology(Electronic Systems)

Minors: **Computer Science & Cybersecurity**

Graduation: May 2024

Texas A&M University

Major GPA: 3.56

SKILLS

C, C++, MATLAB, Semiconductor Test & Validation, ATE, Embedded Systems & Firmware, Analog & Digital Electronics, Instrumentation, Control Systems, ARM Cortex-M Architecture, RTOS & Concurrent Programming, PLCs, Python, Data Structures and Algorithms, Computer & MCU Architecture, RF & Electromagnetics, Artificial Intelligence, Machine Learning, Java, HTML/CSS, JavaScript, LabView, HDL, VHDL, x86 Assembly, Cisco Networking Architecture, Network Systems/Security

WORK EXPERIENCE

Graduate Researcher

ETID Department at TAMU

College Station, TX

Aug 2024 - Present

- The research aims to realize 3D radar imaging to monitor and analyze rooftops/buildings' integrity.
- The plan is to take 2D image slices and reconstruct the 3D environment(TOMO-SAR), using Python, C++, and the API libraries of the radar board.

Graduate Teaching Assistant

ETID Department at TAMU

College Station, TX

Aug 2024 - Present

- Coached students on the construction of Analog ICs with semiconductor devices (diodes, filters, amplifiers, power supplies, transistors).
- Applied circuit analysis techniques to debug circuits using test equipment.

Automation Engineer Intern

Beijing HangZhen Technology Co., Ltd

Beijing, China

May 2023 - July 2023

- Analyzed PLC programs of automation lines for documentation and continuous integration.
- Applied automation techniques to program Siemens PLCs to coordinate between different machine tools and the production control software.

PROJECTS

2D Topdown Spaceshooter Game(reference GitHub)

June 2024 - Sep 2024

- Researched relevant C/C++ libraries and related APIs for graphical applications and games.
- Applied OOP and dynamic memory management to implement various classes to realize game features.

HRTBT Group - Embedded Software Engineer

Aug 2023 - May 2024

- Developed a remote and contactless vital sign measurement device using mmWave radar sensors and peripherals.
- Programmed the signal processing process to extract vital features using Embedded-C and TI mmWave API library.
- Designed customized Python GUI with configurable parameters to display heart/breathing rates graphically.

Path Finding Robot

Apr 2022 - May 2022

- Implemented sequential logic circuits in Intel Quartus Prime to program an FPGA-controlled robot for path-following.

HONORS

Dean's Honor Roll

Fall 2023, Spring 2024

Distinguished Student

Spring 2023