Daniel Yu

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EDUCATION

Texas A&M University (TAMU), College Station, Texas — Major GPA: 3.465
Major: **Electronic Systems Engineering Technology** — May 2024
Minor: **Computer Science** & **Cybersecurity** — May 2024

RELEVANT COURSEWORK

Microcontroller Architecture ♦ Computer Organization ♦ Embedded Systems Software
Data Structures and Algorithm ♦ Analog Electronics ♦ Power Systems and Circuit Applications
Electromagnetic & High Frequency Systems

SKILLS

C++ ♦ Python ♦ Embedded C ♦ Arm Cortex Assembly ♦ Multisim ♦ Intel Quartus Prime
PLC Programming ♦ Lean Six Sigma Yellow Belt

WORK EXPERIENCE

Beijing HangZhen Technology Co., Ltd — May 2023 - July 2023
Industrial Automation Engineer Intern

- ♦. Studied PLC programming and industrial automation techniques from scratch.
- ♦. Programmed Siemens PLC S-1200 for coordination between PCS and equipment.
- ♦. Designed software architecture for exchange between PCS and PLC-controlled operations.
- ♦. Analyzed PLC programs of automation lines for documentation.
- ♦. Collaborated with colleagues about standardizing the process of project execution.

RELEVANT EXPERIENCE

Department of Engineering Technology and Industrial Distribution — Aug 2023 - Present
Undergraduate Researcher

The research aims to develop an ISAR imaging and detection system for various objects using MIMO mmWave sensors with AI to enhance efficiency.

- ♦. Analyzing research literature about ISAR and Deep Learning for project implementation.
- ♦. Evaluating potentials of different neural network architectures for better image accuracy and process efficiency.
- ♦. Devising data preprocessing methods for radar sensor-specific signal output.

HRTBT Group — Aug 2023 - Present
Embedded System Software Engineer

The project aims to create a remote vital sign measurement device using mmWave radar sensors and related peripherals.

- ♦. Analyzing software documentation of implemented features of hardware platforms to establish the groundwork for later development.
- ♦. Evaluating the feasibilities of machine learning and multiple-input-multiple-output radar imaging for fasting processing time.
- ♦. Developing software processes to fulfill project scope using Python and embedded C

Department of Technology and Industrial Distribution Oct 2022 - Dec 2022

Text Adventure Game: programmed a text-based game using Assembly on MSP432 microcontroller and LCD

Department of Technology and Industrial Distribution — Apr 2022 - May 2022

Path Finding Robot: constructed sequential logic circuits for an infrared-sensor robot to follow designated routes

Department of Technology and Industrial Distribution — Mar 2022 - May 2022

Microcontroller UI: devised interface of functionalities between MSP432 and PC using embedded C

HONORS

Dean's Honor Roll — Fall 2023
Distinguished Student — Spring 2023