

- Passed the final tests held by the committee successfully with full mark and released the project source code at <https://github.com/MarcYu0303/2022-TDPS-Team-13>.

2021 National Competition for Embedded Chip and System Design for University Students

Team Member Jul. 2021 - Nov. 2021

- Designed and built a face recognition door lock using an RT-Thread development board, a camera with 2 million pixels and a simple mechanical lock structure.
- Constructed a face recognition model using the Tensorflow-Lite framework and transplanted the model onto the development board based on C++, obtaining a final recognition accuracy of 83%.

RISC CPU Design and Function Implementation Based on FPGA

Designer Mar. 2021 - Apr. 2021

- Constructed a specific instruction set using assembly language, including functions like MOV, ADD, SUB, ADDC and so on.
- Used Verilog for writing datapath and control unit of the CPU and FPGA development board for function realization.

INTERNSHIP

Polarizon Co., Ltd, Shenzhen, China

Algorithm Intern Jan. 2021 - Mar. 2021

- Used a 3D engine Unity to generate synthetic datasets and studied DirectX rendering rules.
- Participated in the development of object detection projects.
- Investigated aircraft pose estimation work and related datasets.
- Acquired aircraft pose estimation data from MSFS2020.

EXTRA-CURRICULAR ACTIVITIES

Hands on Chengdu: Autism Care

Teaching Assistant Spring 2021

- Worked as the teaching assistant in a special education school every Thursday and Friday.
- Accompanied autistic children in their rehabilitation training and outdoor activities.

Recruitment of Volunteers for the FISU World University Games

Organizer&Interviewer Dec. 2020 - Jan. 2021

- Organized and arranged volunteer interviews as the main person in charge.
- Screened volunteers as an interviewer.

Youth Volunteer Association of UESTC

Office Director Sept. 2020 - Sept. 2021

- Designed and organized a wide range of voluntary activities.
- Led a group of 38 members in daily management of the Youth Volunteer Association.

SKILLS

Languages&Deep learning frameworks: C/C++, C#, Python, Matlab, Verilog, Pytorch, Tensorflow

Software: Matlab, LTspice, Multism, MS Office, Vivado

English Proficiency: IELTS 7.5

HONORS AND AWARDS

- Outstanding Graduate in Sichuan Province 2022
- First-Class Academic Scholarship of Glasgow College (top 5%) 2020, 2021&2022
- Outstanding Student First-Class Scholarship of University of Electronic Science and Technology of China (top 10%) 2020, 2021&2022
- Third Prize in 2021 National College Student Embedded Chip and System Design Competition 2021
- Top 100 Outstanding Young Volunteers of University of Electronic Science and Technology of China 2020
- Undergraduate National Scholarship (top 1.6%) 2020