

# 费天祥 Tianxiang Fei

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## Education

### Sun Yat-sen University

Undergraduate Student, Major in Communication Engineering

Advisors: Prof. Jun Hu, Prof. Shihai Sun, Prof. Lei Zhang

GPA: 3.5 (4.0)

Core Courses:

Discrete Mathematics (93), Data structures and Algorithms Practice(93), Pattern Recognition and Artificial Intelligence (94), Electromagnetic Fields and Waves (86, rank 11/100), Principles of Communication (91), Information Theory and Coding (94), Analog Circuits, Digital Circuits, High Frequency Circuits (87), Probability and Statistics, Signals and Systems, Stochastic Processes and Statistical Signal Processing (85).

Shengzhen, China

Sept. 2022–Present

## Research Experience

### Sun Yat-sen University - Key Laboratory Of Advanced Intellisense Technology of Guangdong Province

Research Intern – Supervisor: Prof. Jun Hu

Research Topic: ZYNQ research & development

Main Contribution:

- 1.Build a FPGA-based neural network (YOLOv5) inference accelerator
- 2.Optimize a FPGA-based high-speed signal acquisition system (AXI, DDR, SRIO and PCIE)

### Sun Yat-sen University – CPNT Lab

Research Intern – Supervisor: Prof. Shihai Sun

Research Topic: ToF high precision human posture recognition system based on single photon detection

Award: National College Students' innovation and entrepreneurship training program (School-Level)

Main Contribution: Build a neural network system which can establish a 3D human posture model with SPAD

### Sun Yat-sen University

Research Intern – Supervisor: Prof. Lei Zhang

Research Topic: RF signal generation via time frequency diffusion (Underway)

Award: National College Students' innovation and entrepreneurship training program (Nation-Level)

## Selected Awards

Second Prize of Guangdong Competition Area in National University Mathematical Modeling Competition (2023)

Second Prize of Guangdong Province in National College Students Statistical Modeling Competition (2023)

## Skills

**Programming:** C/C++, MATLAB, Python, Verilog

**Hardware:** ZYNQ Development; Embedded System Development

**Language:** English (fluent), Mandarin (native)