Zhenglang Weng

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EDUCATION

University of Science and Technology of China (USTC)   *Hefei, Anhui, China*
School of the Gifted Young, Junior Year   Sep. 2022 – Present
- **Major**: Electronic Information Engineering   **Overall GPA**: 4.04/4.3   **Ranking**: 1/149
- **Standardized Test**: TOEFL:111 (Reading: 30, Listening: 30, Speaking: 23, Writing: 28)

PROJECT EXPERIENCES

A Software Defined Radio System for 5G PUSCH[1]
Advisor: Prof. Wuyang Zhou, Prof. Puhua Zhang| Course Project for *Principles of Communications*   Dec. 2024
- Accomplished modules using MATLAB, including QAM, Scrambling/Descrambling, OFDM, CRC, Channel Estimation.
- Constructed a simulated channel using MATLAB and a real channel using an RF antenna.
- Validated the code operation through various channels, focusing on Error Correction, Channel Estimation, and Equalization.

Simplified 8-bit CPU Based on FPGA
Advisor: Prof. Xiaowen Liang| Course Project for *Electronic System Design*   Nov. 2024
- Designed an 8-bit Instruction Set of basic operations, including move, jump, basic computation, condition, immediate number.
- Implemented the self-designed Instruction Set using Verilog HDL, and verified the basic function of the CPU using peripheral interfaces on an experiment circuit board.

Automatic Routing Gluttonous Snake Program Based on BFS Algorithm
Advisor: Dr. Linlin Qin| Course Project for *Computer Programming A*   Nov. 2022
- Designed and implemented a program of the classical game Gluttonous Snake.
- Established a program that can automatically lead the snake to eat most of the apples without dying, using the basic algorithm of Breadth First Search (BFS).

HONORS AND AWARDS

Outstanding Undergraduate Scholarship-Gold Prize (Top 3%)   Nov. 2024
Scholarship Issued by JAC&NIO Enterprise (Top 2%, 5000 CNY) | *USTC*   Nov. 2023
CUMCM [2] (1st in Anhui Province, Second Prize National) | *China*   Dec. 2023
Robogame Robot Championship (Second Prize) | *USTC*   Nov. 2023

TEACHING EXPERIENCES

Teaching Assistant for Computer Programming A   Fall, 2024
- Conducted exercise sessions for students and assisted them in exam preparation.
- Utilized an online openjudge platform to facilitate program assessments.

SKILLS

Programming Language: C, C++, MATLAB, Mathematica, Python, Verilog HDL, Markdown, LaTeX
Software: Sketchpad, GeoGebra, SolidWorks
Hardware: Heat gun, Soldering station, PPG, EDFA, Optical Attenuator, Optical Fibre

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Class Representative for Academics
Member of the USTC Ballroom Dance Association
Volunteer of the USTC Science and Technology Opening Week(2023&2024)

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[1]Physical Uplink Shared Channel
[2]Contemporary Undergraduate Mathematical Contest in Modeling