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Education

3rd Year undergraduate - Electronic Information Engineering

Sep. 2022 – Current Wuhan, China

Wuhan University of Technology

• GPA: 91.24/100

 Coursework: Electrical Engineering and Electronics, Analog Electronic Circuit, Digital Electronic Circuit, Microcontroller Applications

Selected Courses with High Grades:

- Introduction to C Programming 98
- Computer Fundamentals & C Programming Lab 100
- Python Programming 97.2
- Java Programming 95.33
- CUDA High-Performance Scientific Computing 96
- Circuit Theory I & II 95.6 & 97.4

Selected Skills and Awards

Languages: Python, C/C++, Java, MATLAB, Assembly Language, VHDL

Tools/Technologies: Git, Linux, LaTeX, CUDA, PCB Design Software, Machine Learning

Hardware: Circuit design, soldering, microcontroller programming

Signal Processing: Digital filters, FFT

Soft Skills: communication, adaptability, detail-orientation, collaboration

- **Provincial First Prize** China College Engineering Practice and Innovation Competition Ranked 2nd nationally in the Provincial Selection (2023)
- University Scholarship Second Prize Scholarship (2023), First Prize Scholarship (2024)
- Excellent Student Wuhan University of Technology Excellent Student (top 1%) (2023, 2024)

Experience

China College Engineering Practice and Innovation Competition – Competitions Provincial First Prize, Ranked 2nd Nationwide

Jun. 2023 - Oct. 2023

- Led a team to design a simulated intelligent connected vehicle, capable of intelligently assessing road conditions and making driving decisions.
- Managed the overall project, ensuring smooth coordination and task delegation among team members.
- Developed and coded algorithms for vehicle decision-making in the simulation environment, optimizing for real-time performance and safety (scored 30% higher than the next team).

Electronic Music Box – Electrical Engineering and Electronics Coursework

Oct. 2023 - Nov. 2023

- Designed an electronic music box that mimics the appearance of a vinyl record player, featuring music circuits and light circuits.
- Fully designed the PCB layout for the music circuit and lighting control, using Altium Designer.
- Fabricated the PCB and assembled the final product, including soldering components and testing the circuit functionality.
- Successfully integrated lighting effects with sound for an interactive user experience.

Electronic Keyboard – Analog Electronic Circuit Coursework

Nov. 2023 - Dec. 2023

• Designed and built a simple electronic keyboard with 21 keys, each generating a corresponding tone from *C3* to *B5* in the Scientific Pitch Notation when pressed.

- Developed a driving circuit to control a buzzer for sound output, utilizing basic electronic components like resistors, capacitors, and transistors.
- Implemented an oscillator circuit to produce specific frequencies for each keypress, allowing us to play multiple musical pieces using the electronic keyboard.

Multi-Channel Quiz Buzzer System – Digital Electronic Circuit Coursework

May. 2024 - Jun. 2024

- Designed and implemented an 8-channel quiz buzzer system with a countdown timer, using digital circuits, including logic gates and flip-flops.
- Built a pure hardware circuit to detect buzzer inputs and determine the number of the first participant to press their button, controlling both an LED display and seven-segment displays.
- We used this buzzer system in a classroom quiz competition.

Electronic Password Lock System – Microcontroller Applications Coursework

Nov. 2024 - Dec. 2024

- Designed and implemented an electronic password lock system using FPGA for secure access control.
- The system includes features such as password validation, error password alerts, unauthorized access alarms, and password modification, et al.
- Due to FPGA button limitations, the system can support up to $(2^8)^4$ password combinations. This system was integrated into an electronic music box to ensure that the playback content cannot be modified without correct access.

Extracurricular Activities

Student Union Officer – Wuhan University of Technology

Sep. 2022 - Jun.2024

- Organized and coordinated multiple school-wide and department-level meetings, ensuring smooth communication and event execution.
- Assisted in the planning and logistics of the annual sports meet, including coordination of volunteers and event schedules.
- Led a team of students to manage event setups, troubleshoot on-site issues, and facilitate participant engagement during events.

Objective

I am a motivated undergraduate student majoring in Electronic Information Engineering at Wuhan University of Technology, seeking remote research opportunities in robotics, HRI, and AI-driven technologies. I aim to leverage my expertise in programming, and algorithm development to contribute to innovative projects at the intersection of robotics control and practical problem-solving while expanding my knowledge and experience in cutting-edge research.