

Master of Engineering – Electrical and Computer Engineering

Bachelor of Engineering – Internet of Things Engineering

Core Courses: Embedded Systems Design, Wireless Sensor Networks, Operating Systems, C Programming, Java Programming
Database Systems (MySQL),etc.



- Designed a LAN connecting Beijing and Shanghai; configured IP addresses, router ports, and VLANs on switches.
- Researched and implemented OSPF routing protocol on a simulated network platform.
- Collected experimental data, analyzed routing results, and wrote a technical report.



- Built a system using 51/52 microcontroller and a pressure sensor, utilizing ADC0832 for analog-to-digital conversion.
- Simulated circuits in Proteus and transitioned to PCB production.
- Programmed system functions in C and tested sensor output visualization.



- Developed a simulated ATM system in Java; responsible for deposit and withdrawal modules.
- Designed user interaction workflows and implemented data storage using arrays.
- Created presentation slides and conducted live demonstrations of system features.



- Designed a smart agriculture system integrating light and humidity sensors to automate irrigation and pest control.
- Implemented environmental sensing with STM32 microcontroller and activated actuators (e.g., water valves, buzzers) based on sensor input.
- Used Keil for firmware development; collaborated with external vendors to fabricate custom PCBs.
- Presented project results to faculty members as part of final undergraduate thesis defense.



- Designed and implemented a BiLSTM-based text classification model to categorize university news articles with high accuracy.
- Collected and preprocessed 1,500+ articles via Python web scraping; applied tokenization and word vectorization for model training.
- Compared machine learning models (Naive Bayes, SVM) and optimized BiLSTM parameters for best performance.



- Provided one-on-one and small group tutoring sessions in mathematics and science for high school students via online platforms.
- Adapted teaching methods to suit students' learning styles, improving engagement and academic performance.
- Created customized lesson plans and practice materials aligned with national curriculum standards.



- Served as class cultural committee member; led event planning and coordination.
- Edited and produced promotional videos to boost student engagement.

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- MATLAB, python (2 yrs) , PS, PR, WPS office
 - English (Proficient), Mandarin (Native), French (Basic)