

EDUCATION

Northwestern Polytechnical University, Shannxi, China

Bachelor of Computer Science

GPA: 3.736/4.1

Average Score: 90.29

Sep. 2021 – Jun. 2025(Expected)

Major: Computer Science and Technology

Rank: 50/243

Percentage: 20.5%

RELEVANT COURSEWORK

- Discrete Mathematics: 92
- Data Structure and Algorithms: 89
- Analysis of signal and system: 91
- Computer Architecture: 92
- Database Management: 94
- Digital Image Processing: 99

ACADEMIC EXPERIENCE

Innovation Training Program for College Students (National Training Project, As the Group Leader) Spring, 2022

Research on Smart Home Control Based on Internet of Things

Supervisor: Hao Yan

- Contributed to a smart home device project leveraging an STM32 microcontroller for environmental detection, enabling alarms, mosquito repellence, and humidification functions.
- Enhanced skills in hardware programming skills in C using Keil, gained proficiency in 3D modeling, understood the fundamentals of common sensors, and designed UI for WeChat mini-applets.

AI Intelligent Speech Internship Program Organized by ASLP Lab, NWPU (As the Group Member) Summer, 2023

Personal Speaking Enhancement

Supervisor: Lei Xie

- Worked in a group to train the given model about Personal Speaking Enhancement, aiming to enhance its performance in separating noise from sources other than the target speaker.
- Enhanced skills in Linux development, bash script writing, learnt how to establish SSH remote connections, and how to utilize GPU acceleration for model training.
- Our group win *Certificate for Excellent Team* in the end of this intern.

A patent for innovation (As the third inventor) Summer, 2023

A kind of cutting saw table with automatic pulling material

- Collaborated in the design of an automatic pulling apparatus for Jiangxi Tuozhu Machinery Company, incorporating computer vision to detect bamboo joints and subsequently maneuver to avoid cutting them.

COMPETITIONS & RESEARCH EXPERIENCE

The 24th National Robotics Championship & 13th International Humanoid Robotics Olympiad | National Second Prize Oct. 2022

- Acquired programming skills for servos by initially programming a robot to perform dance moves.

National 3D Digital Innovation Design Competition 15th Anniversary Elite League | Provincial Grand Prize May. 2023

- Designed and 3D modeled robot *Bray*, focusing on its mechanical structure and ensuring both appearance and functional efficacy.

The 24th Mathematical Modeling Competition of Northwestern Polytechnical University | School level First Prize Jun, 2023

- Raised algorithmic models for optimizing healthcare resource allocation in rural areas, focusing on the shortest path to medical facilities and road maintenance costs.

2023 China Robotics Competition & RoboCup China Tournament | National Second Prize Oct. 2023

- Developed *Qi Li*, a quadruped robot capable of interactive communication, performing pose detection, recognizing music, and dancing in response to auditory cues.

2023 National Student Mathematical Modeling Contest | Provincial Second Prize Nov. 2023

- Optimized heliostat field layout for tower solar power generation, addressing a new optical efficiency modeling and intelligent algorithm-based layout optimization

HONORS & PRIZES

Outstanding Student | Honors for students who have been active during the past year.

2022, 2023

Second Class Scholarship | Top 15 % available per college.

2022

First Class Scholarship | Top 5 % available per college.

2023

Yajun Wu Specialized Third Class Scholarship | Only 3 slots available per college.

2023

TECHNICAL SKILLS

Language: Mandarin (native), English (CET-4: 645, CET-6: 606, IELTS: 6.5), Japanese (N1 Level)

Programming: C, C++, Python, SQL, Java

Softwares and Technologies: Pycharm, VS Code, MySQL, Solidworks, Keyshot, Keil, Git, LaTeX