

Kuanlin Wang

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Prospective Graduate Student

Northwestern Polytechnical University
Master's Candidate in New Generation Electronic Information Technology



Biography

I am a senior undergraduate student majoring in Electronic Information Engineering at [Northwestern Polytechnical University](#) (NWPU). My current GPA is 3.42/4.10 and I have received multiple academic honors including the University Second-Class Scholarship.

Research Interests: Signal processing, embedded systems, computer vision applications, and intelligent control systems.

Education

B.Eng. in Electronic Information Engineering

Northwestern Polytechnical University | 2021-2025

- GPA: 3.42/4.10 (Top 30%)
- Core Courses: Digital Signal Processing (95), Communication Principles (92), Embedded System Design (98)
- CET-4: 479 | CET-6: 440

Research Projects

Face and Gesture Recognition System

Sep 2023 - Dec 2023

- Developed real-time multimodal interaction system using Python/OpenCV
- Implemented MediaPipe-based gesture recognition with 95% accuracy
- Designed GUI interface with PyQt5 for user interaction

Intelligent Heavy Equipment Transfer System

Jun 2023 - Jun 2024

- Contributed to mechanical design of dual differential drive system
- Co-authored 2 utility model patents for automated transfer vehicle
- Conducted finite element analysis for structural optimization

Awards

- Third Prize, NWPU Mathematics Competition (Non-major Group) - 2022
- Third Prize, "Press Cup" Mathematical Modeling Competition - 2023
- University Second-Class Scholarship - 2022, 2023

Technical Skills

- **Programming:** C/C++, Python, MATLAB
- **Embedded Systems:** STM32, Arduino, PWM control
- **Tools:** Altium Designer, AutoCAD, SolidWorks