ZHIYI GE — RESUME

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OBJECTIVE

Senior IoT engineering student with extensive project experience in embedded vision systems and robotics. Led development of three projects using agile methodologies. Seeking a full-time Embedded Engineer position to apply my technical skills in a product development environment.

EDUCATION

SOUTH EAST TECHNOLOGICAL UNIVERSITY | WATERFORD
NANJING UNIVERSITY OF INFORMATION SCIENCE & TECHNOLOGY | NANJING
Bachelor of Engineering in IoT Engineering | Sep 2023 - Present | Third-Class Academic Scholarship (2025，2026)

PROJECT EXPERIENCE

FACE RECOGNITION MICRO:BIT ROBOT | IOT & AI PROJECT | DEC 2025
• Designed and built a low-cost educational robot achieving 95% face recognition accuracy using Micro:bit and K210
• Developed a privacy-preserving triple-hash encryption system, reducing data vulnerability by 90%
• Implemented real-time LED feedback system with Python, enabling intuitive user interaction
• Managed full Agile development cycle with 3 sprints, user stories, and burndown charts
• Documented technical and ethical considerations in comprehensive 15-page report

MICRO:BIT ROBOT CONTROL SYSTEM | ROBOTICS | OCT 2025
• Developed programmable robotic car with precise motion control and path planning
• Implemented advanced movement patterns including geometric shapes and custom letters
• Created interactive button-based UI for user control and pattern selection
• Optimized motor control algorithms for smooth operation and energy efficiency

RASPBERRY PI PLANT MONITORING SYSTEM | IOT AUTOMATION | JUN 2024
• Created automated plant care system with soil sensors and email alerts using Raspberry Pi 4
• Programmed Python scripts for data collection, analysis, and SMTP notification triggering
• Implemented remote monitoring via VNC, enabling real-time system debugging
• Followed Scrum methodology with 10-day sprint cycle and clear user stories

SKILLS

- Programming: Python (Proficient), C/C++ (Intermediate), JavaScript (Basic)
- Embedded Platforms: Micro:bit, Raspberry Pi, Arduino, ARM Cortex-M
- Computer Vision: OpenCV, YOLO, Face Recognition Algorithms, Feature Extraction
- IoT Protocols: MQTT, HTTP, Bluetooth 5.0, GPIO, I2C, SPI
- Tools: Git/GitHub, VS Code, PlatformIO, AWS IoT Core, JIRA, Slack
- Methodologies: Agile/Scrum, Waterfall, Technical Documentation, Project Management

CERTIFICATIONS

- College English Test Band 4 (CET-4) - pass - Dec 2023
- College English Test Band 6 (CET-6) - pass - Jun 2024

LANGUAGES

- Chinese(Native)、English (Fluent)