Ziming Yan

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Education

Zhejiang University (ZJU)   Sept 2021 - June 2025
Major: Electrical Engineering and Automation
College: ZJU-UIUC Institute
GPA: 3.9/4.0
TOEFL: 96
Awards: ZJU Learning Model (10/2024), Excellent Class Leader (04/2024 & 03/2024), ZJU Progress
Model (10/2023)

University of Illinois Urbana-Champaign (UIUC)   Aug 2023 - Dec 2023
Major: Electrical Engineering
GPA: 3.59/4.0
Awards: Dean's List (Spring 2024, Fall 2024; Top 20%)

Nanyang Technological University (NTU)   Aug 2025 - Present
MSc in Electrical and Electronic Engineering (Coursework)
Award: EEE Global Excellent Award

Research Experience

Final Year Project: Human-Robot Interaction for Object Grasping with VR and Robotic Arm
- Developed control software for robotic gripper to grasp/release objects using pressure sensor feedback.
- Implemented CAN communication linking VR, controllers, and stepper motors.
- Available: demo video and GitHub code.

Bachelor Thesis: Thrust Prediction for Aircraft Engines Using ML
- Compared ML models: Random Forest, SVR, XGBoost, Decision Tree, MLP, and LSTM.
- Conducted hyperparameter tuning and stacking for performance optimization.
- GitHub: github.com/yzmyyds/research/.../Senior_Thesis

Summer Research Program, ZJUI
- Participated in research on Diffused Backlight Image (DBI).
- Calibrated DC power supply and designed 3D-printed tools with Fusion 360.

Student Research Training Program (SRTP)
- Studied deep learning literature and built CNN-based image recognition model.
- Trained model on unlabeled images to summarize content automatically.

Teaching Experience

Physics Lab TA, ZJUI   Sep 2024 – Dec 2026
- Guided students in Phys211/Phys212 laboratory experiments.
- Graded and provided feedback on lab reports.

Internship Experience

Advanced Technology Research Institute, Zhejiang Sci-Tech University Feb 2025 – Jun 2025
- Assisted in developing CAN communication architecture for bipedal robot.
- Conducted structural stability testing of quadrotor UAV.

Skills

Software & Systems: Linux, LaTeX, GitHub, Fusion 360, KiCad, JLCEDA
Programming Languages: C/C++, Python, MATLAB (Simulink), LC-3 Assembly, SystemVerilog (FPGA)

Hardware/Embedded: STM32 development, CAN bus, PCB Design
Machine Learning: Model training, deployment, optimization (scikit-learn, PyTorch)