

Brandon Zhou

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EDUCATION

Temple University, Philadelphia, Pennsylvania,
Bachelor of Science, **Electrical and Computer Engineering**
Primary Coursework: Engineering foundations, Programming, Calculus 1 & 2, Physics 1 & 2

Graduation: May 2028

SKILLS

Programming: Python, C++, MATLAB, CSS, JavaScript

Tools & Software: Excel (VBA), Word, PowerPoint

Operating Systems: Windows, MacOS

Engineering Workflow: debugging, system troubleshooting, documentation, team collaboration

Hardware: Electronics, wiring, soldering, 3D printing, and physical prototyping

CERTIFICATIONS

MATLAB Onramp (MathWorks, 2024): Completed structured training covering scripting, conditionals, loops, functions, and data analysis techniques.

PROJECTS

Micro: bit-Based Incubator System | Designer & Programmer *Aug 2025 – Dec 2025*

- Designed and programmed a temperature-controlled incubator using a micro: bit micro-controller
- Implemented sensor-based monitoring and control logic to maintain stable environmental conditions
- Designed and 3D-printed a custom holder to securely mount the micro: bit and incubator components
- Tested and refined the system to improve reliability and consistency of temperature regulation

Wind Turbine Site Analysis *Jan 2025 – June 2025*

- Evaluated environmental and atmospheric variables to determine optimal wind turbine placement
- Calculated electrical output under varying conditions using engineering analysis
- Organized and summarized environmental and electrical data into structured Excel spreadsheets

Autonomous Robot | Software and Design Member *Aug 2022 – June 2022*

- Design and programming of an autonomous LEGO EV3 robot to navigate and deliver bins
- Integration of ultrasonic and color sensors for real-time data collection and logic execution
- Documentation and maintenance of the design notebook for project tracking

ACTIVITIES

Electrical Engineering Club (IEEE) | Member *Aug 2024 – Present*

- Gained hands-on experience with basic circuit design, electronics, and system troubleshooting
- Collaborated with peers on technical projects, reinforcing problem-solving and teamwork skills
- Applied classroom concepts to real-world engineering challenges through workshops and activities

Wrestling | Varsity – co-captain *Oct 2021 – Feb 2024*

- Provided mentorship to less experienced teammates by guiding them through techniques and strategies
- Successfully balanced academic responsibilities alongside training, demonstrating time management

Temple University Filipino Association (TUPAC) | Member *Aug 2024 – Present*

- A diverse student organization for cultural awareness and team camaraderie events
- Demonstrated teamwork, communication, and organizational skills in group settings