# YIDE LIN

## ELECTRICAL ENGINEERING

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## PROFESSIONAL SUMMARY

As an Electrical Engineering student at RPI, I began my journey as a struggling freshman but gradually built confidence and skills through hands-on learning and team collaboration. I co-developed an automated hydroponic farming system and designed a pet temperature alarm using analog components. I also challenged myself to build a personal website from scratch. Though still a work in progress, it reflects my drive to keep learning and creating. While my academic performance is still evolving, I remain committed to advancing my engineering skills through experience and self-driven projects.

## EXPERIENCE

**Engineering Design Project – Pet Temperature Alarm**                Summer 2025

- Designed a temperature warning circuit using an op-amp comparator and a thermistor-based voltage divider.
- Simulated and tested threshold behavior in LTspice; calculated component values to match temperature limits.
- Collaborated with teammates on breadboard, data capture with Analog Discovery 2, and results documentation.
- Practiced analog circuit debugging and analysis, gaining experience in thermal sensing and comparator design.
- Gained hands-on experience in thermal sensing circuit design and successfully tested system response under simulated overheating scenarios.

**Course Project – Automated Hydroponic Farm**                Summer 2025

- Co-designed and built an automated hydroponic system integrating PVC frame, water pump, sensors, and LED lighting.
- Programmed Arduino to monitor temperature, humidity (DHT22), and light levels (BH1750) for plant environment control.
- Worked closely with teammates to ensure proper flow rate, leak-proof structure, and real-time display of sensor data.
- Contributed to system wiring, code debugging, and presentation of final prototype in a team-based engineering studio.
- The prototype was successfully demoed and well-received in our design showcase, reinforcing real-world system integration skills.

## EXPERIENCE (CONTINUED)

**Personal Project – Portfolio Website**                  Mar 28 2025 - Sep 17 2025

- Designed and built a personal portfolio website using HTML, CSS, and JavaScript, deployed via GitHub Pages.
- Created multi-page layout with sections for blog, projects, contact form, and embedded YouTube video gallery.
- Implemented a functional message board with anonymous posting and threaded replies using front-end JavaScript logic.
- Practiced responsive design principles and iterated styling; mobile compatibility in progress.

## SKILLS

- Skilled in **Python** development
- Hands-on with **LTspice** simulation and analysis
- Experience with **op-amp comparators**, **voltage dividers**, **RLC circuits**
- Skilled in using **Analog Discovery 2** (WaveForms) and oscilloscopes

## EDUCATION

**Bachelor's in ELECTRICAL ENGINEERING**                  2023-2027

*Rensselaer Polytechnic Institute, Troy, NY | Expected Graduation: May 2027*

- Rensselaer Leadership Award Scholarship Recipient
- Ranked in Top 17% of Class in Engineering Probability
- Professional Development: PD - TECH ISSUES & SOLUTIONS
- Member of RPI Badminton Club