

Victoria Jiang

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EDUCATION:

3.3 GPA

Graduates 2028

Electrical Engineering -- Purdue West Lafayette
Concentration in Power Electronics

TECHNICAL SKILLS: Matlab, Java, Python, C, SolidWorks, Github, LtSpice, Gitlab, SolidWorks Composer, Raspberry Pi, PCB Design

CLEARANCE: Secret Security Clearance

SUMMARY: Purdue Electrical Engineering student with sensor and autonomy experience, hands-on testing and debugging work, and experience in secure environments.

WORK EXPERIENCE:

Purdue University - Heinz Lab, *Neurophysiology Research Assistant*

August 2025 - Present

- Designing a system to protect lab animals from premature death and unnecessary harm by streamlining data from health monitoring instrumentation and feeding it into a predictive algorithm.
- Identified key issue of reconstructed analog respirometer through the use of standard E.E bench equipment and PSpice simulations such that it had increased sensitivity to input, which allowed the device to get more accurate readings of the rate of chinchilla's breathing.
- Improved a digital respirometer through debugging MATLAB and Python code, which allowed the sensor to generate a response to heat.

MITRE, *Sensor Systems Engineering Intern*

Summer 2024

- Engineered cybersecure, interactive technical documentation for classified underwater acoustic sensing systems for internal and external use.
- Developed technical documentation by creating and integrating SolidWorks Composer-generated SVG diagrams with GitLab for accessible, version-controlled design references.
- Researched and evaluated commercially available sensors for integration into an ROV, assessing technical specifications, compatibility, and suitability for underwater sensing applications.

NODAR, *Engineering Intern*

Summer 2023

- Selected to assist a local mobility software company in developing 3D vision software for safer, more sustainable automobiles.
- Documented the software development kit, supported experimental testing to benchmark system performance, and analyzed and labeled image datasets for training advanced AI vision systems.
- Designed and fabricated a large 1.5×2 -meter stereo vision calibration target to benchmark 3D vision accuracy, enabling precise evaluation and validation of the system's depth-perception performance.

CLUBS: Boxing Club, Tango Club