Rebecca Law

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EDUCATION

University of Illinois at Urbana-Champaign GPA: 3.73/4.0
Bachelor of Science in Electrical Engineering August 2024 – May 2028

SKILLS & RELEVANT COURSE WORK

- **Technical Skills:** C, C++, Java, Python (NumPy), JavaScript, HTML/CSS, embedded systems (Arduino), circuit prototyping
- **Applications:** KiCad, Autodesk Fusion, MATLAB, Linux, Xilinx Vivado
- **Relevant Courses:** Digital Systems, Analog Signal Processing (in progress), Computer Systems (in progress), Linear Algebra, Physics: Electricity & Magnetism

PROJECTS

Sense-and-Avoid Autonomous Rover — Personal Project December 2025 - Present

- Designing and implementing an ultrasonic sensing system using time-of-flight measurements for obstacle detection
- Integrating motors, power delivery, and onboard electronics to ensure reliable operation during autonomous navigation **(Arduino)**

BMES Make-a-thon — Biomedical Systems Designer February 2026

- Designed a non-invasive wearable system to monitor placental and maternal blood flow during pregnancy using DCS / NIR sensing
- Developed conceptual schematic-level architecture, defining signal flow from optical sensors to microcontroller processing and blood-flow trend output (KiCAD)

China House — Website Developer December 2025

- Developing a customer-facing website to improve usability and accessibility for a local Chinese restaurant
- Integrated UI and UX design principles to optimize navigation, information hierarchy, and cross-device performance **(HTML, CSS, and JavaScript)**

Personal Portfolio Website — Front-End Developer December 2025 - Present

- Built and deployed a personal portfolio website to showcase engineering projects (**HTML, CSS, and JavaScript)**
- Implemented responsive layouts for consistent performance across desktop and mobile devices

Inspirit AI Program – Machine Learning & AI Design for Distracted Driving Detection June 2024

- Implemented a VGG16-based CNN for real-time distracted driving detection **(Python)**
- Conducted model evaluation and performance tuning on real-world image data

EXPERIENCE

Testing Engineering Intern
Teinnovations LLC | Aurora, Illinois May 2025 – August 2025

- Conducted testing of packaging films on PP & PET substrate, including peel tests for seal strength and burst tank evaluations to assess durability.
- Assisted with Modified Atmosphere Packaging (MAP) applications to study film performance under environmental conditions
- Performed data collection and statistical analysis to evaluate material integrity and optimize test procedures

ACTIVITIES & INVOLVEMENT

Electrical Engineer – Circuit Implementation
Biomedical Engineering Society | Engineering Open House September 2024 – Present

- Soldering, assembling, and testing the electronic circuit for a human-controlled robotic hand, including flex-sensor integration
- Presenting the completed electronic system and control implementation at the Engineering Open House (EOH) showcase