

# PETER DEA

PETERBDEA@PROTONMAIL.COM / 712-292-8881 / AMES, IA

**OBJECTIVE** Seeking full-time employment in electrical engineering. Primary interests are embedded systems and VLSI circuit design.

**EDUCATION** **Iowa State University** – Ames, IA Expected May 2025  
Bachelor of Science in Electrical Engineering  
GPA: 3.88/4.00  
**Awards:** Garmin Scholarship Fund Award

**EXPERIENCE** **ARA Wireless Living Lab** – Ames, IA Aug 2023 – Present  
*5G Wireless Research Assistantship*

- Developed a software framework using ansible, docker, and python that monitors the health metrics of computers in the ARA 5G wireless network. This framework is currently in use to ensure the reliability of all computers in the network.

**Duwe Labs** – Ames, IA May 2024 – Aug 2024  
*Embedded Systems Research Assistantship*

- Developed a testbed for intermittent battery-less sensor nodes in both hardware and software.
- Used Code Composer Studio to write embedded C code to interface between the component PCBs.
- Drafted hardware revisions to the PCBs within the system using KiCad.

**Missouri Dept. of Transportation** – St. Joseph, MO June 2023 – Aug 2023  
*Traffic Intern*

- Implemented traffic data collection infrastructure by deploying various sensor systems, including cameras and radars.
- Utilized collected data to support infrastructure decisions, such as speed limit adjustments, and signal timing optimizations.

**RELEVANT SKILLS** **Hardware:** Oscilloscopes, logic analyzers, soldering, PCB design  
**Software Applications and Languages:**  
Verilog, LT Spice, Code Composer Studio, Cadence, Quartus Prime, ModelSim, MATLAB, C, Python, Microsoft Office, Linux

**CURRENT PROJECTS** **Quality Assessment of LED Toy Assembly**  
*Senior Design Project for Honeywell*

- Working with a client at Honeywell to perform rigorous destructive and non-destructive evaluation of a mass-produced electronic device.

**Custom PCB Color Organ**  
*Electronics System Design*

- An electronic circuit that takes an input audio signal and lights up different LEDs in response to the frequencies of the signal. This circuit is designed in KiCad and will be printed onto a PCB.