Brady Kuhn

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EDUCATION

IOWA STATE UNIVERSITY Ames, IA

Bachelor of Science in Electrical Engineering Expected May 2026

Cumulative GPA: 3.93/4.00; Dean's List: Fall 2022 – Spring 2025

Relevant Courses: Microwave Engineering; Embedded Systems; Electronics Systems Design

WORK EXPERIENCE

JOHN DEERE Dubuque, IA

Product Engineering Intern May 2025 – Aug 2025

- Developed a new payload weighing strategy for articulated dump trucks by collecting and analyzing field data using Vehicle Spy, eventually enabling operators to improve productivity by an estimated 7%.
- Led conversations with suppliers to explore alternative sensors to reduce costs and address warranty claims.
- Managed an issue log for a prototype vehicle build, ensuring accurate progress reporting to the engineering team.

IOWA STATE ELECTRONICS & TECHNOLOGY GROUP Ames, IA

Student Engineer Aug 2024 – Present

- Design, assemble, and troubleshoot various PCBs and lab equipment. Work hands-on with voltage regulators, microcontrollers, and high-speed RF boards used in my graduate-level Microwave Engineering course.
- Provide hands-on engineering support, assisting undergraduate students with component selection, circuit design, and debugging for their academic projects.

UNIVERSITY & PERSONAL PROJECTS

SMART CLOCK PCB Spring 2025

Personal Project

- Designed a 4-layer ESP32-based PCB clock featuring IoT functionality via NTP synchronization and Wi-Fi.
- Integrated USB-C programming, OLED display, ambient temperature and light sensors, and an interactive game.

VARIOUS LAB EQUIPMENT INTERFACE PCBs Fall 2025

Iowa State ETG

- Designed and built a microcontroller-based PCB integrating an IR sensor and LCD to measure and display platform height on lab equipment, enhancing usability and measurement accuracy.
- Sourced and laid out a switching voltage regulator for a robust Raspberry Pi HAT to support student projects.

AUTONOMOUS MARS ROVER Spring 2025

Embedded Systems

- Integrated sensors and motors on an embedded iRobot platform for autonomous navigation in a course project.
- Configured ADC modules and timers on a microcontroller using C and datasheet specifications.

ADDITIONAL

Skills: Digital Circuit/PCB Design, ADS, Cadence, MATLAB, LTspice, C, KiCad, Oscilloscopes, Soldering