

Michael Stocki

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EDUCATION

Iowa State University

Ames, IA

Bachelor of Science in Electrical Engineering, Minor in Applied Mathematics

Exp. May 2028

- **GPA:** 4.00
- **Honors:** Dean's List, Honors College
- **Coursework:** Electrical Circuits, C Programming, Digital Logic

TECHNICAL PROJECTS

Ready-To-Move Light Indicator System | *Circuit Design, High Voltage* Sept. 2025 – Present

- Drew schematic and designed PCB layout for Ready-To-Move indicator light circuit board using Altium, integrating high voltage (600V) design, electrical logic, and current draw considerations
- Designed circuit in LTspice utilizing a 555 timer, comparator IC, and MOSFET. Circuit implementation in Altium includes an optoisolator and low-dropout regulators for proper power delivery and high voltage isolation
- Wrote testing procedures to ensure proper board operation using standard lab tools

Pedal Position Sensing System | *Altium Designer, PCB Assembly* Sept. 2025 – Jan. 2026

- Designed custom PCB boards utilizing I²C hall-effect angular sensors for precise pedal position feedback in competition solar vehicle
- Performed component selection for sensor IC through datasheet analysis to meet functional specifications including 12-bit precision, a programmable I²C address, and angular output data
- Drew schematics and PCB layouts in Altium Designer for 4-layer boards with consideration for EMC, signal integrity, and proper functionality

EXPERIENCE

Teaching Assistant Jan. 2025 – Present

EE2850 – Introduction to C Programming

Ames, IA

- Cultivate a productive lab environment for 50+ students across 2 sections to learn and develop programming skills
- Assist students with troubleshooting issues on demand, teach students programming concepts, and ensure student understanding of core concepts
- Quantitatively evaluate student performance and give actionable feedback through in-lab demos and lab report grading

ENGINEERING LEADERSHIP & INVOLVEMENT

Electronics Team Member Aug. 2025 – Present

SAE Electric Formula

Ames, IA

- Contribute design reviews and technical feedback for team PCB projects including power distribution and sensor boards
- Collaborate with other engineers on different subteams to explain usage and ensure proper integration of electronics in the car
- Work closely with electronics lead to determine team direction and management

Electrical Team Member Aug. 2025 – Present

PrISUm Solar Car

Ames, IA

- Collaborate with teammates on design and assembly for various projects as required by team demand
- Assist new members with understanding the car's electrical architecture and contributing to projects

TECHNICAL SKILLS

Design Software: Altium Designer, KiCad, LTspice

Programming Languages: C, C++, Python, Bash, MATLAB, Verilog

Protocols & Concepts: communication bus (I²C, CAN), signal filtering, PCB layout, circuit design, basic EMC

Tools & Equipment: oscilloscope, multimeter, surface-mount soldering, function generator

Technologies: Git, GNU/Linux, Neovim, Markdown, LaTeX