Jake Hafele

jakehafele1@gmail.com | Portfolio at jakehafele.com

OBJECTIVE

Seeking an electrical engineering internship in hardware development, design, and or testing for the Summer of 2022

EDUCATION

Iowa State University, College of Engineering, Ames, Iowa

Electrical Engineering (B.S.)   **Expected December 2023**
GPA: 4.0/4.0
Minor in Mathematics

EMPLOYMENT

Workiva, Software Engineer Intern; Ames, Iowa   **May 2021 – August 2021**

- Collaborated with 10+ developers in a fast paced software development role
- Programmed module based solutions in Dart for the user interface
- Designed Java code to help manage roles and ids for admin users
- Verified and debugged code against 700+ tests

Iowa State University, Lab Technician; Ames, Iowa   **August 2021 - Present**

- Managing several mechanical engineering labs and performing routine maintenance on equipment
- Collaborating with coworkers to set up upcoming labs and material
- Supporting students by verifying measured data points and regression models

PROJECTS

Solar Car

- Leading the Battery Protection System, which monitors the voltage, current, and temperature of Li-Ion batteries
- Manage the quad output power supply board
- Implemented catalogue system for 500+ parts
- Soldered and tested various boards before FSGP 2021

Critical Tinkers

- Designed a "useless" machine, which included an autonomous arm that would flip off switches
- Created a remote controlled robot that mimics the movements of a spider
- Building a spherical vehicle that will roll like a ball in any direction

ACTIVITIES AND LEADERSHIP

- PrISUm Solar Car Club – Board Manager, Librarian   **2020 – Present**
- Critical Tinkers – Secretary   **2019 – Present**
- The Engineering Ambassador and Mentor Program   **2020 – 2021**

SKILLS

Hardware	Design, Debugging Boards, Soldering, Making BOMs, 3D printing
Software	Git, Altium, KiCad, LT Spice, Fusion 360, Cura
Languages	C, C++, MATLAB, Java, Python, Dart

AWARDS

- Top 2% of Engineers award   **2019 – 2021**
- College of Engineering Dean's List   **2019 – 2021**