­­­Jake Hafele

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**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**