

## Objective

Obtain a summer 2019 internship in radio and optical transceiver design or robotics development.

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## Education

*Iowa State University, Ames, IA*.....Graduating December 2019  
B.S. Major: Electrical Engineering Minor: German; Major Specific GPA: 3.43

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## Work Experience

*Rockwell Collins/Collins Aerospace* – Platform Systems Engineer.....June 2018-Present

- Work as a team along-side the customer to test and develop platform systems for the KC-135
- Design and execute tests under civil and USAF regulations using DOORS and other industry tools
- Ensure operation of subsystem interconnect and identify problem areas

*Central Iowa Air Service* – Line Service Specialist.....May 2017-May 2018

- Interact with customers and provide various services to facilitate their needs
- Maintain a safe and secure working environment including security monitoring, grounds keeping, and fuel management
- Work as a team to tow, fuel, detail, and maintain various aircraft and the airfield as a whole

*ISU College of Engineering* – Tour Guide.....May 2017-August 2017

- Handling large groups to guide through the workings of engineering department
  - Provide detailed answers about the specific engineering focuses offered at Iowa State
  - Work with a team to provide optimal experiences for prospective students
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## Technical Experience

Javascript, C, Matlab, C++, Verilog, PHP, Python

Network and Website Development

Circuit and PCB Design and Simulation

Computer Testing, Troubleshooting, and Repair

Sensor Inputs (thermistors, motor encoders, IR, load cell, etc)

Soldering & Other Benchwork (oscilloscope, multimeter, etc)

Arduino, Raspberry Pi, and Robotics Development

Test Procedure and Requirements Development (DOORS, PREP)

3D Modeling and Printing

## Collegiate Leadership Experience

Iowa State German Club - President (17-18) - Club of 100+ members

Iowa State German Club - Treasurer (16-17) - ~\$500 budget

Iowa State Space Society – Treasurer (17-18) - Manage purchases, outreach events, and general meetings

FIRST Robotics Team 2077 - Mentor - Team of 30-40 Members

Taekwondo - Black Belt – Lead classes of 5-20 people (age 4-60)

## Personal Projects

Automated Financial Tracker

Budget helper applications

Mini Solid State Tesla Coil

Understanding high voltage systems

Freelance Web Dev

Learning projects to hone high level scripting skills

Simple IR Remote

Wirelessly create/differentiate 1kHz/10kHz signals

File Server & Website

Website for my digital files and media

Escarpment Climbing Gym

Startup - learning about business management

Test Robot

Robot to strengthen programming & sensors skills

**More projects and info on my website**