

# Steven Williams

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## Objective

Obtain a summer 2019 internship in robotics and embedded systems development or low-level hardware development.

## Education

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

## Working Experience

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

- Work as a team to test and develop platform systems for the KC-135
- Design and execute tests under civil and USAF regulations using DOORS
- 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

- Inform large groups on the workings of engineering department
- Answer detailed questions about specific engineering focuses
- Work with a team to provide optimal experiences for prospective students

## Technical Experience

Java, C, Matlab, C++, Verilog, Python  
Circuit Simulation, 3D Modeling & Printing  
Electronics Testing and Troubleshooting  
Sensor Inputs (thermistors, motor encoders, IR, load cell, etc)  
Soldering & Other Benchwork (oscilloscope, multimeter, etc)  
Arduino, Robotics, and Raspberry Pi Development  
Network and Website Development  
Test procedure and Requirement Development (DOORS)

## 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

Optical Transistor R&D  
R&D into how THz photons interact with matter  
Automated Financial Tracker  
Budget helper applications  
Mini Solid State Tesla Coil  
Understanding high voltage systems  
Freelance WebDev  
Learning projects to hone high level scripting skills  
File Server & Website  
Website for my digital files and media  
Escarpment Climbing Gym  
Startup - learning about business, etc  
Test Robot  
Robot to strengthen programming & sensors skills

**More projects and info on my website**