

# Ian Ahner

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## **Education:**

- Graduated with Academic Honors from Jasper High School (May 2014)
- Studying Electrical Engineering at Missouri University of Science and Technology (Expected Graduation 2019)
- Pilot: ASEL - TW, HP, CMP; Part 107 Remote – sUAS; P3 - FL, FSL, RLF, RS, ST, TUR, XC; PPG3 - FL

## **Skills and Knowledge:**

- Industry certification for Autodesk Inventor
- Experience in Mechanical Design and Fabrication
- Proficient with Microsoft Office Suite, Adobe Suite, Inventor, AutoCAD, Solid Edge, and Windows, Linux, and MacOS System Administration
- Knowledge of Digital Electronics, PLC Programming, Microcontrollers, Circuit Design, and Electronic Troubleshooting
- PCB Design – Eagle, KiCAD, Altium
- Experience with pneumatic and hydraulic systems
- Proficient in C++ programming
- Experience with Manual and CNC machining
- Skilled in Brazing and Welding with Oxy-Fuel (Gas), SMAW (Stick), GMAW (MIG), and GTAW (TIG)
- Bicycle Frame Building
- Unique knack for outside-the-box solutions to unusual problems

## **Work Experience:**

- Electrical Engineering Consultant (2014 to Present)
  - Embedded design and programming
  - RF digital communication
  - Control Systems
- Engineering Intern at Jasper Engines and Transmissions (Summer 2015)
  - PLC and microcontroller programming and integration
  - Electronic troubleshooting and repair
- Engineer at Ridetech, Air Ride Technologies Inc. (March 2013 to August 2014)
  - Structural analysis of suspension components for cost and material reduction
  - Test component fabrication
  - CAD design and FEA stress simulation
  - Server, database, and SharePoint administration
- Boat Mechanic at Allied Marine Force (Summer 2010)
  - Routine boat maintenance and cleaning
  - Incidental repairs

## **Other Experience:**

- WOEEE Amateur Radio Club (Vice President)
- Formula High School and Supermileage Competition (Project Lead)
- FIRST Robotics (Engineering Leader)
- Jazz Band (Lead Trumpet), Marching Band, Orchestra (Principal Trumpet)
- LEAF- Learning Experiences in Applied Fields, a peer to peer learning foundation. (board of directors)
- Cycling: 4 cross-country bicycle tours, group leader for 2 of them

## **References and project portfolio available upon request**