

## **ResCon Technologies, LLC is hiring a Software Engineer/Flight Stack Developer (Remote OK)**

As a flight stack developer, you will be responsible for integrating ResCon's revolutionary Machine Learning technologies into small Unmanned Aerial Systems (sUAS) flight control software.

### Opportunity Description

ResCon is seeking a flight stack developer with deep knowledge of PX4 and Ardupilot open source UAS autopilot software for integration of our novel approach to machine learning on drones. Candidates will work closely with multiple PhD developers to

- Implement AI/ML technologies on standard drone open-source hardware
- Assist in the building, testing, and evaluating of demonstrator UAS aircraft and subcomponents
- Aid in the development and integration of AI/ML process output with user interfaces
- Support flight stack development for ResCon customers as they test and deploy their UAS offerings

This is a full-time position though we will consider part-time employment for highly qualified candidates. Most projects and tasks can be completed remotely, with regular updates occurring via email and conferencing software. There will be occasional in-person meetings in Atlanta, GA and Columbus, OH.

### Who We Are

ResCon Technologies is a spinout of The Ohio State University and was founded in July 2020 by Brian Gyovai, a 23-year Air Force veteran, Dr. Daniel Gauthier, professor of physics at OSU, and Dr. Andrew Pomerance, president of Potomac Research, LLC. Our mission is to revolutionize the capabilities of sUAS by embedding machine learning to enable fast, low-power data fusion and edge processing. ResCon's ML-augmented flight control algorithms make sUAS safer, more efficient, and more agile, all while offering unprecedented insight into the health and status of the aircraft.

### Who We Are Seeking

The successful candidate will be a foundational member of ResCon, and key to a small team dedicated to making an impact in the edge computing and sUAS space. They will be passionate, relentlessly curious, and willing to reinvent the status quo.

### *Minimum Experience*

- BS in Computer Science, Engineering, or related fields
- 1-3 years of software development experience
- Proficiency in C/C++ and Python
- Familiarity with data analysis and ML applications in C/C++ and Python
- Familiarity with PX4 and Ardupilot open-source software

### *Desired Experience*

- Passion for drones, aircraft, and all things aerospace with experience building drones
- History of PX4/ArduPilot flight stack projects in the UAS industry

- Proficiency in ROS and similar real-time applications
- Part 107 operator certification
- Background in control theory or data science, especially predictive maintenance for complex systems

#### Position Requirements

- U.S. Citizenship is a must-have due to multiple ongoing US Government projects
- Immediate availability for at least six months