

ResCon Technologies, LLC is hiring a Lead Flight Stack Developer

As our lead flight stack developer, you will be responsible for integrating ResCon's revolutionary Machine Learning technologies onto small Unmanned Aerial Systems.

Opportunity Description

ResCon is seeking a lead flight stack developer with deep knowledge of PX4 and Ardupilot open source UAS autopilot software for integration of novel approaches to artificial intelligence and 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 will initially be a part-time position which will likely transition to full time as revenue increases. Ideal candidates will be located near our headquarters in the Columbus, Ohio area.

Who We Are

ResCon Technologies is a spinout of The Ohio State University and was founded in February 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 edge computing capabilities of sUAS by deploying extremely low-power and low-data machine learning algorithms to existing and developmental systems. ResCon's ML-augmented flight control makes 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 sciences, especially predictive maintenance for complex systems

Position Requirements

- U.S. Citizenship
- Residence in the Columbus, Ohio area preferred, though remote work will be considered for exceptionally qualified candidates
- Immediate availability for at least six months
- Project-based employment contingent on funding from the US government and private investment
- Part-time position will transition to full-time if funding allows