



Senior Flight Controls Engineer

At Martin UAV, our mission is to build the world's most advanced unmanned systems with a focus on safety, reliability and repeatable performance. Our technology team specializes in building tactical systems from the ground up and addressing the vast capability gaps left by legacy technologies. With decades of rapid design and build advancement, our platforms offer capabilities unmatched in the world.

We're looking for a Senior Flight Controls Engineer to lead the design, development and optimization of our flight controller for our vertical take-off and landing (VTOL) aircraft.

Responsibilities

- Create, modify and optimize flight control systems for a family of advanced unmanned VTOL vehicles.
- Perform vehicle flight dynamics simulation, and analyze flight test data.
- Develop and present plans for new Flight Controls projects to improve performance and reliability.
- Assist the flight test team in planning, critical observation, and reporting.
- Update regression test tools and work with a testing team to build a plan to validate flight controls.
- Assist in the development of simulation tools.
- Guide and mentor junior team members.

Qualifications

- Masters or Doctorate degree in Aeronautical, Mechanical, Electrical, or Software Engineering with a focus on Control Systems.
- A minimum of five years of experience in the area of robotics, vehicle dynamics modeling, flight controls, or simulation.
- Expert level knowledge of MATLAB / Simulink model based development and autocode generation techniques.
- Expert knowledge of aircraft control, stability and handling qualities.
- Experience tuning and optimizing control systems.
- Excellent communication skills and ability to lead development efforts.
- Enjoy small focused teams and an aptitude for working across disciplines when required.
- Applicants must be a U.S. person.

Preferred Qualifications

- Experience with Kalman Filter design and implementation.
- Implementation of adaptive controls and system identification techniques.
- Experience with design or selection of Servos, Inertial Navigation Systems, Air Data Units, vision based navigation cameras or other air vehicle sensors / controls.
- Familiarity with C/C++ and the GNU toolchain.



- Comfort with Git or similar software version control tools.
- Familiarity with unmanned vehicle command and control languages MAVLINK, STANAG 4586.
- Requirement generation and verification testing.
- FAA and DOD software development and testing methodologies/requirements.

Martin UAV is located in Prosper, Texas. We offer a comprehensive benefits package including medical, dental, vision and life insurance, PTO days, and a 401(k) plan with company matching.

Contact our Careers Team at Careers@MartinUAV.com to submit a resume and a statement regarding your suitability for this position.