FLIGHT SYSTEMS ENGINEER

Open Until Filled

Job Title	Flight Systems Engineer	**Team**	Research & Development
Location	Remote/Hybrid (Chattanooga, TN area preferred)	**Commitment**	Flexible, ~10-20 hours per week (subject to growth)
Status	**Open role**		

JOB SUMMARY

We are looking for a talented Flight Systems Engineer to help design, develop, and deploy the autonomous flight systems that power our drones. You'll be working with state-of-the-art technologies and taking full ownership of key features, such as navigation, obstacle avoidance, and system safety. If you're excited by cutting-edge UAV software and love solving complex technical challenges, this role is for you.

JOB RESPONSIBILITIES

Key area	Tasks
Software Development & Design	• *Write efficient, maintainable code to implement flight systems on embedded hardware.*
	• *Develop and refine algorithms for trajectory planning, real-time decision-making, and obstacle avoidance.*
	• *Design and implement autonomous flight software, including guidance, control, and navigation systems.*
Integration & Testing	• *Perform rigorous testing and validation of flight software through simulation and live flight trials.*
	• *Troubleshoot software and hardware integration issues, resolving technical challenges as they arise.*
	• *Monitor and refine the software to improve flight performance, stability, and safety.*
Collaboration & Continuous Improvement	• *Collaborate with cross-functional teams (hardware, R&D, and product) to continuously improve and iterate on features.*
	• *Contribute to the development of software development processes, testing frameworks, and documentation.*
	• *Stay current with industry trends and emerging technologies to integrate new advancements into flight systems.*

REQUIREMENTS

Educational Background (*Not Required- But Preferred):*

- Bachelor's or Master's degree in Aerospace Engineering, Computer Science, Robotics, or a related field **OR** equivalent experience preferred.

Experience:

- Experience with autonomous navigation systems (SLAM, visual odometry, etc.) is a plus.
- Familiarity with DoD, FAA, or other regulatory standards (preferred).
- Strong background in aerospace or unmanned vehicle development.

Skills & Competencies:

- Proficiency in C++, Python, and or other programming languages.
- Experience with UAV systems, especially guidance, control, and navigation algorithms (GNC).
- Understanding of embedded systems and hardware-software integration.

Compensation

- ***Equity****: 1.0% – 2.5% equity, vested over 4 years with a 1-year cliff. This gives you a meaningful stake in the company's growth.*
- ***Deferred Salary Agreement*****:** Deferred until the startup's first funding round, at which time a competitive salary (typically $120,000–$160,000) will be established based on experience.
- **Milestone Incentive:** Backpay for the deferred salary may be offered upon successful funding.

ADDITIONAL REQUIREMENTS

- **Startup Readiness:** Comfort with an early-stage, fast-moving startup environment. You'll need to wear many hats and handle ambiguity while pushing the company forward.
- **Passion for UAVs & Autonomous Systems**: A genuine interest in UAV technology and autonomy is key. We're building something impactful, and passion for the work will be central to success.
- **Willingness to Travel:** Periodic travel for field testing, client meetings, and potentially international UAV testing or partnerships**.**