



Launch Vehicle Embedded Developer

How to Apply: Send your resume to careers@reactiondynamics.space and indicate the position you are applying for.

About the Company:

Reaction Dynamics is a rocket manufacturer founded in 2017 to develop a breakthrough launch technology based on hybrid propulsion. This technology allows us to build highly reliable and eco-friendly launch vehicles at a fraction of the cost of traditional vehicles. We design all of our hardware in-house, and focus on project ownership and iteration speed. Our first suborbital demonstration flights will commence this year and we aim to begin orbital flights in 2024.

About the Role:

We are aiming to launch our first rocket before the end of this year, and your work will contribute directly to this. You will be responsible for assisting with the development of our flight software platform. This includes bare-metal and RTOS programming for the vehicles control, telemetry, and data acquisition systems. You will have a wide range of responsibilities including software architecture design, implementation, testing, and support during launch. Safety and reliability are key for these systems, and it will be your responsibility to make sure both are met. A perfect candidate will have a strong background in embedded and real-time software development, understanding of test-driven development, and experience delivering high quality, reliable code.

Responsibilities:

- Perform bringup of new avionics prototypes
- Create and manage requirements for flight software
- Write drivers and firmware for interfacing with sensors and actuators on the vehicle
- Work with team members to implement control simulations into flight software
- Implement and test software for vehicle telemetry handling and data downlink
- Write high quality unit tests to ensure reliable code
- Prepare documentation and supporting material

Skills and Qualifications:

- Undergraduate degree in software engineering or equivalent
- 2+ years of experience developing embedded systems
- Proficiency with C
- Strong understanding of Python
- Strong understanding of software fundamentals
- Experience with development using a real-time OS
- Familiarity with continuous integration systems and unit testing
- Knowledge of rocket fundamentals a plus
- Willingness to work extended hours as needed
- Able to work in a fast-paced, challenging environment

Language:

- English (Required)
- French (Preferred)