



Navigation and Estimation Engineer

Toronto, Canada

The Company

We are SpaceRyde; building Canada's first rocket to launch small satellites!

Pioneering an industry is not an easy task, but with our combination of experienced founders, high-profile investors and bright team, we have achieved many firsts. We have doubled our staff every year, and will reach space in 2022, so come join us if you'd like to work on the edge of innovation and creativity.

The Role

You will work closely with GNC engineers and will play an important role in the design, development and testing of navigation and estimation stack for SpaceRyde's launch vehicle. You will be challenged daily and will need to adapt quickly to achieve tight project deadlines.

How to Apply

Email your resume and unofficial transcript to jobs@spaceryde.com

Key Responsibilities

- Support the development of launch system guidance, navigation and control software:
- Writing navigation and estimation algorithms for all flight vehicles.
- Developing simulation software to test and verify the navigation algorithms.
- Writing low level drivers to communicate with sensors.
- Calibrating sensors for appropriate environmental conditions.

Requirements

- Master's degree with emphasis in navigation, estimation, guidance or controls.
- Working knowledge of critical concepts like estimation theory, (EKF) Extended Kalman Filter, Observers, Noise Filtering and calibration of sensors.
- Good understanding of rigid body kinematics and dynamics.
- Strong programming knowledge in C++/Python.
- Bonus points for knowledge of orbital dynamics and navigation in space.