

100 Northern Avenue
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MOTIONAL.COM



Motional is making driverless vehicles a safe, reliable, and accessible reality.

Our team is commercializing a world-class driverless system. The Motional team is behind some of the industry's largest leaps forward in the last decade, including the first fully-autonomous cross-country drive in the U.S, the launch of the world's first robotaxi pilot, and operation of the world's most-established public robotaxi fleet. Strategically formed by [Hyundai Motor Group](#), one of the world's largest vehicle manufacturers offering smart mobility solutions, and [Aptiv](#), a global technology leader in advanced safety, electrification, and vehicle connectivity, Motional is fundamentally changing how people move through their lives.

Headquartered in Boston, Motional has operations in the US and Asia.

We are seeking highly motivated **Autonomous Vehicle System Intern (Robotics)** to help in achieving our goals.

Please note that it will be in our Singapore office, and we would expect a **minimum 5 months internship period**.

What you'll be doing:

- To conduct analysis and model how error, inaccuracy, and uncertainty of sub-components contribute to the overall system level performance.
- To conduct analysis and model the uncertainty that arises from sensors, environment, as well as other road users, and how it relates to the operational envelope of the self-driving vehicle
- Understand how software components are interconnected with one and another and able to perform sensitivity analysis on how performance of upstream modules impact performance of downstream modules and system performance as a whole
- Develop test methods and solutions based on real world data and simulation

What we're looking for:

- Bachelor's or Master's Degree in Computer Engineering, Computer Science, Electrical Engineering, Robotics or a related field
- Strong systems engineering and broad knowledge of engineering fundamentals
- Strong hands-on experience with autonomous robotics systems and ability to analyse and debug on a system level
- Extensive experience with system level integration (both hardware and software)
- Familiarity with perception, motion planning, controls, mapping, and localization
- Familiarity with different sensor modalities, including lidar, cameras, IMU, radars.
- Fluency in Python
- Familiarity with C++
- Experience with linux systems

Please drop your resume to chris.ng@motional.com if you are interested!