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Respected Hiring Manager,

My name is Devesh Datwani and I am a robotics engineering graduate student at the Worcester Polytechnic Institute, MA, USA.

This is to express my interest for a full time opportunity starting Summer of '23 for the listed position and to articulate my skill set in robotics to support my claim of being a great fit for the said role.

My robotics journey began in high school some 10 years ago when I started designing and building semi autonomous fixed wing aircraft powered by gas and electric motors to satiation my passion for aviation.

Since then, my tryst with robots has involved pursuing undergraduate studies in mechanical engineering with a graduate study in robotics engineering subsequently and working at labs such as the Propulsion Lab at the Aerospace Department of IIT Bombay, Human Inspired Robotics Lab and Popovic Labs at WPI.

Whether it's airflow induction with plasma actuators, autonomous aerial vehicles, one-to-many power distribution mechanism or writing programs for probabilistic estimation, classical computer vision techniques for visual SLAM, deep learning models for object detection and instance segmentation models, my foundation in robotics solidly pans from mechanical principles of building robots to writing their software stack.

Building machine perception with classical and machine learning approaches using multi sensor package deeply excites me and I look forward to contributing in global efforts to solve robot autonomy.

Through this letter, I would like to highlight my latest experience where I worked with the Worcester Fire Department to build a fire safety solution. My stint involved building a scalable mobile robot using lidars for mapping indoor environments through scan matching and particle filter to evaluate safety in the event of a fire situation. I believe this experience exhibits my ability to engage with stakeholders, identify problem statements, think critically and build a solution with my skill set in the robotics domain.

With this I submit to your fine sense of judgement to take a decision on my application.

Sincerely,

Devesh Datwani