



Devesh Datwani
Merrick Street
Worcester, MA 01609
📞 978-809-5026
✉ datwanidevesh@gmail.com

Respected Hiring Manager,

My name is Devesh Datwani and I am a robotics engineer from the Worcester Polytechnic Institute, MA, USA. I currently work as a lab assistant to carry research on human-robot collaboration for nursing robots at the Human Inspired Robotics Lab, WPI, Worcester, USA.

This is to express my interest in the full time opportunity and to articulate my skill set in robotics to support my claim of being a great fit for the 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 satiate my passion for aviation.

Since then, my journey with robotics has involved pursuing mechanical engineering for undergraduate studies, robotics engineering as graduate study subsequently and working at labs such as the Propulsion Lab at the Aerospace Department of IIT Bombay, Human Inspired Robotics Lab, Surface Meteorology Lab and Popovic Labs at the Worcester Polytechnic Institute. 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 team devised a novel and scale-able technique based off indoor mobile robots that evaluate fire safety by mapping indoor environments with lidar sensors. I believe this experience exhibits my ability to engage with stakeholders, identify problem statements, think critically and build and solve problems.

My expertise lies in; probabilistic estimation, SLAM, structure from motion, human-robot interaction and deep learning approaches for multi-scale object detection and image segmentation. In addition, my work with augmented reality at the HiRo lab complement my skill set for roles involving perception.

My programming strengths involve writing quality code in Python, C++ and MATLAB and libraries such as STL, PyTorch, TensorFlow, OpenCV, Scikit-Learn and Numpy.

The most important capability apart from my technical skill set is my affinity to solve challenging problems in collaboration with others, which is to say that I am a team player. However, when required, I have led successful research projects in the past.

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