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San Jose, CA
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Hiring Manager
Honda Research Institute USA
San Jose, CA

Dear Hiring Manager,

I am writing to express my interest in the Software Engineer position for Mobile Robots (Job Number: P23F10) at Honda Research Institute USA. With a strong academic background in Electrical Engineering and Computer Sciences from UC Berkeley, coupled with hands-on experience in robotics, computer vision, and autonomous systems, I am enthusiastic about the opportunity to contribute to your team's cutting-edge research and development in autonomous driving and cooperative mobility.

During my time as the Team Leader and Computer Vision Engineer for the DJI RoboMaster Competition, I led a team of 40 students to develop and deploy multiple types of robots, earning us third place in the 2023 University League. I was responsible for architecting the software systems, implementing real-time auto-aim features using C++ in a Linux environment, and integrating advanced algorithms for object detection and trajectory prediction. This experience not only honed my skills in developing low-latency and high-performance software but also in integrating and testing these systems in real-world scenarios.

My role as a Research Assistant at UC Berkeley further solidified my expertise in developing scalable software infrastructure and tools. I have experience with ROS/ROS2, Python, C++, and modern software engineering tools like Git and Docker, which I used to create a web application for explaining deep learning decisions. Additionally, my work at Momenta as a Product Manager Intern exposed me to the intricacies of developing and optimizing software for autonomous vehicles, providing me with practical insights into the challenges and requirements of this domain.

I am particularly excited about the opportunity at HRI-US because it aligns perfectly with my passion for advancing autonomous driving technologies. I am confident that my technical skills, coupled with my hands-on experience in robotics, make me a strong candidate for this role. I am eager to contribute to your team's efforts in implementing state-of-the-art algorithms and improving software libraries for real-world applications.

Thank you for considering my application. I look forward to the possibility of discussing how I can contribute to the innovative work at Honda Research Institute USA.

Sincerely,

Jonas Li

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