1831 E Apache Blvd, Apt 3079, Tempe, AZ 85281

6233267382

tellsiddh@asu.edu

Dear Hiring Manager,

With a Master of Science in Robotics and Autonomous Systems from Arizona State University, extensive experience as an Embedded Systems Engineer, and a rich portfolio of academic projects and patented innovations, I believe I have the unique blend of technical skills, creativity, and leadership required for this role.

Education & Coursework: My graduate studies at ASU have equipped me with deep insights into Reinforcement Learning, Deep Learning, Optimal Control, and Multi-Robot Systems. My undergraduate degree in Mechanical Engineering from D. J. Sanghvi College of Engineering in India further laid a strong foundation in programming, industrial electronics, robotics, and machine design.

Technical Proficiencies: I have hands-on experience with a wide range of technologies including Python, C++, Embedded C, MATLAB & Simulink, AWS IoT Core, and several hardware platforms like ESP32, SAMD21, Arm Cortex-M. My ability to work with different protocols like SPI, I2C, CAN Bus, and ZigBee underlines my aptitude in communication and network technologies.

Professional Experience: In my current role as an Embedded Systems Engineer at Enterprise Technology, I successfully engineered a UHF full mesh protocol with AES Encryption and optimized IoT-based cart tracker battery life to 3 years. My work as a Graduate Student Researcher in the Bio-Inspired Robotics, Technology, and Healthcare Lab enabled me to design advanced robotic systems, achieving high precision testing results.

Leadership & Innovation: I co-founded and headed the electric ATV team, DJS Kronos India, and worked on simulating and engineering DAQ systems. My contributions have also led to patent applications related to innovative designs.

Projects & Research: My academic projects display my capability to tackle complex problems in robotics, control systems, and machine learning. From developing dexterous manipulation with a robotic hand to machine learning for fraud detection, I have demonstrated adaptability and the drive to explore new challenges.

Patents: My commitment to innovation has resulted in two patents, with one focused on the design of a Steering Knuckle Joint for Double A-arm Suspension System and another pending on the design of a Single Stage Open Differential.

I believe that my skills and experiences align perfectly with your team's goals and that I can make significant contributions to the projects at hand.

Thank you for considering my application. I look forward to the possibility of contributing to [Company Name] and am available at your convenience for a meeting.

Sincerely,

Siddharth Jain

linkedin.com/in/tellsiddh

github.com/tellsiddh

www.tellsiddh.com