

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

6233267382

tellsiddh@asu.edu

Subject: Application for the Position of [Robotics/Embedded Systems Engineer, or specific position you're applying for]

Dear [Hiring Manager's Name],

I am writing to apply for the position of [specific position] at [Company Name], as advertised. 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 am particularly drawn to [Company Name] due to your dedication to [mention something specific about the company, like cutting-edge technology, commitment to innovation, etc.]. 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](https://www.linkedin.com/in/tellsiddh)

[github.com/tellsiddh](https://github.com/tellsiddh)

[www.tellsiddh.com](https://www.tellsiddh.com)