

SimDaas Autonomy Pvt Ltd, SIIC-IIT Kanpur

Position Overview: Robotics Engineer

Joining: Immediate

We are seeking a highly motivated and talented students to join our robotics team. The ideal candidate will have a strong foundation in embedded systems, and software development. This position offers a unique opportunity to work on, Arduino, Raspberry Pi, Teensy, and various communication protocols, to develop and test innovative robotics solutions.

Key Responsibilities:

- Develop and implement low-level code for hardware integration.
- Work with communication protocols such as CANbus, ISOBUS, USB, Ethernet, SPI, UART, and Serial for device communication and data transfer.
- Design, develop, and test algorithms for industrial LiDAR systems.
- Create and optimize drivers for sensors and LiDAR devices.
- Conduct extensive field testing on actual hardware to validate performance.
- Participate in the design and fabrication of custom PCBs.
- Utilize 3D printing technology for prototyping and product development.

Required Skills and Qualifications (All or most of these):

- Basic understanding of electronics and embedded systems.
- Proficiency in programming languages such as C, C++, and Python.
- Experience with microcontroller programming (Arduino, Teensy).
- Familiarity with communication protocols (CANbus, USB, Ethernet, SPI, UART).
- Knowledge of sensor and actuator interfacing.
- Basic understanding of LiDAR technology and applications.
- Hands-on experience with 3D printing and PCB design software (e.g., Eagle, KiCAD).
- Excellent problem-solving and analytical skills.
- We also welcome students with no degree / courses done in this area but who have deep interest and want to pursue their career in this area.

Preferred Skills:

- Prior experience with field testing and debugging hardware systems.
- Understanding of safety and compliance standards in robotics.

Benefits:

- Gain hands-on experience with advanced robotics technology.
- Mentorship from experienced professionals in the field.
- Competitive compensation based on candidate's profile
- The position is permanent

Contact:

- Send your resume to Col. Rajeev Lohani at:
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