

## Product Design Trainee in the IITGN Robotics Lab IIT Gandhinagar

**Broad Subject Area:** Robotics / Industrial Product Design

**Minimum Qualification:** B.Des/B.Tech in Industrial Design, Product Design, Mechanical Engineering, or related discipline from a recognized institution is required. Proficiency in 3D CAD and rendering software (e.g., SolidWorks, Fusion 360, Rhino, KeyShot, Figma, Blender) is essential. Candidates must demonstrate strong visualization skills and effective communication of design concepts. Knowledge of Design for Manufacturing (DFM) principles is expected. Interest in technology, robotics, and education is preferred. Experience with 3D printing, prototyping, or electronics packaging is an advantage.

The percentage/grade points with respect to the academic qualifications will be a minimum of 60% or equivalent grade from Graduation onwards and 55% or equivalent grade in class 10th and 12th.

**Salary:** Consolidated monthly remuneration will be Rs. 20,000/- per month.

**Project:** Designing Robotic Systems.

**Desired Background:** Strong foundation in one of the areas of prototyping, product design and industrial design with applications to engineering products, preferably robotic systems. Prior experience in designing products through systematic design principles using user surveys and iterative prototyping is preferred.

**No. of posts:** 2

**Description:**

The successful candidates will have an opportunity to contribute to projects involving building robotic hardware, developing control algorithms, and experimentation. These projects involve multidisciplinary skills including modeling, simulations, development of the hardware prototypes, electronics, coding, and experimental testing.

The candidates are expected to have strong interests and some prior foundation in one of the areas from mechanical design, product design, industrial design, human-machine interface, and design thinking. The successful candidates are also expected to bring a positive and enthusiastic attitude to the lab and work collaboratively with several other

lab members on this project. An open-mindedness and a willingness to learn new hardware, software and theory skills as the project demands is a must given the multidisciplinary nature of the projects. The successful candidates should be proficient in written and verbal communication, which is necessary to collaborate effectively in a multidisciplinary team environment and present and explain the technical information.

The candidate will work in the IITGN Robotics Lab ([website](#), [youtube channel](#)) and will have plenty of opportunities to interact and collaborate with other labs in mechanical engineering, electrical engineering, and in cognitive sciences. The lab has a vibrant environment and has a diverse and interdisciplinary set of individuals and we work on a range of robotics and control systems projects ranging from fundamental theory and its hardware validation to robotic systems for specific applications (with human subject trials in some cases).

The tenure for this position will be 12 months.

Please submit the resume and a short statement of 250-300 words highlighting your career goals and your motivation to apply for this position (and specifically mention past experience working with robot hardware, or robotics), and a list of referees (preferably three) using [this form here](#) latest by 30 June, 2025. For any questions, you may write to Prof. Madhu Vadali at [robotics@iitgn.ac.in](mailto:robotics@iitgn.ac.in)

