Divyanshu Pandey
Third Year Undergraduate
Department of Mechanical Engineering

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Education

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	7.2	2021 - Present
Class XII	Bihar Public School, Buxar	72	2020-2021
Class X	D. A. V. Public School, Buxar	90.6	2018-2019

Projects

- **Robust 2R Manipulator**   **[May 2023-July 2023]**
  - Designed and fabricated a robust 2R manipulator for experimental testing of control codes. Evaluated forward, inverse kinematic, and dynamic equations for the robotic manipulator, to use in the control of the manipulator. Using familiarisation with sensory feedback, and motor calibration.
  - Developed a PID control algorithm, specifically computed torque control, to be fed in the Odrive as the controller. Achieved precise trajectory tracking for the end effector of the manipulator.
  - Improved understanding in the areas of feedback control systems, electronics and motor calibration, control system design and robotic systems and also strengthen logic building and analytical thinking.
- **Spotify Home Page Clone**   **[Dec 2023-Present]**
  - Developed a Spotify Clone using HTML, CSS, and JavaScript to replicate the core functionalities of the popular music streaming platform.
  - Utilized HTML for structuring, CSS for styling, and JavaScript for implementing interactive features, providing a seamless user experience.
  - Improved technical proficiency, advanced portfolio development, honed user experience (UX) design skills, and demonstrated self-motivation as a proactive self-starter.
- **Project Leader, 3D modelling of Automatic Rifle**   **[Jan 2022-Apr 2022]**
  - Designed and executed a comprehensive 3D modelling project aimed at creating a realistic and functional representation of an automatic rifle.
  - Demonstrated expertise in 3D modelling techniques, precision engineering, and attention to detail while crafting the intricate parts of the firearm with the help of Autodesk.
  - Inculcated skills such as problem solving, leadership, team management, adaptability, decision-making and presentation skills.

Achievements

- Scored 100% in Physics in JEE MAINS Exam.   **[Feb-Oct 2021]**

Position of Responsibility

- Be the part of NGO CRY at IIT Gandhinagar   **[May 2023]**

Skill Summary

- **Languages:**   C++, C, Python, MATLAB, HTML, CSS, JavaScript
- **Tools:**   Autodesk Inventor Professional, ANSYS
- **Course:**   [Machine Learning Specialization](#) by Andrew Ng (Coursera), The Complete 2023 Web Development Bootcamp by Dr. Angela Yu

Extra-Curricular Activities

- **Nukkad Natak, Blithchron '22, IIT Gandhinagar**
  - Imbedded the qualities of coordination, punctuality, public speaking, self-expression and team work.