

ANIKET RAJ

Design & Development

CONTACT ME

✉ aniketraj62577@gmail.com

☎ 7903202040

OBJECTIVE

Aspiring Design Engineer with hands-on experience in product design, CAD modeling, and manufacturing support, seeking a design engineering role to develop efficient, production-ready solutions by applying strong mechanical fundamentals, design-for-manufacturing principles, and industry-oriented engineering practices.



ACADEMIC QUALIFICATIONS.

High School passed from CBSE Board in 2017.

Intermediate School passed from CBSE Board in 2019.

Diploma in Plastic Engineering and Technology from CIPET: CSTS
BADDI (H.P). 2022

B.Tech in Manufacturing Technology from CIPET: IPT ,
LUCKNOW(U.P). 2025



PROFESSIONAL SKILLS.

- **CAD & Design Tools:** Proficient in SolidWorks, Siemens NX, and AutoCAD for 3D modeling, 2D detailing, and production-ready drawings.
- **Product Design & Development:** Strong hands-on experience in end-to-end product design, from concept development to detailed engineering and documentation.
- **Additive Manufacturing (3D Printing):** Practical knowledge of additive manufacturing technologies, design considerations, material behavior, and prototype validation.
- **Geometric Dimensioning & Tolerancing (GD&T):** Solid understanding and application of GD&T standards to ensure functional fit, interchangeability, and manufacturability.
- **Design for Manufacturing & Assembly (DFM/DFA):** Good knowledge of DFM and DFA principles to optimize designs for cost, efficiency, and ease of assembly.
- **Engineering Documentation:** Experienced in preparing technical drawings, BOMs, and design documentation aligned with manufacturing requirements.



PROJECTS:

- "Design and Development of a Lightweight Vibration-Resistant Motorcycle Mirror Rod Using Advanced Polymer Composites".

Technologies Used:

- CAD Modeling: UG Nx (for 3D design).
- Material Selection: Comparative analysis (Steel vs. PA6-GF30).
- Prototyping: 3D Printing (for plastic prototypes).
- Modal and Vibration Analysis (ANSYS).

EXPERIENCE

APL Apollo Doors & Windows Ltd.

Graduate Engineer Trainee (GET) – Design & Development Department

Location: India | Duration: [July/2025 - On going.]

- Designed and optimized uPVC door and window profiles, focusing on structural strength, dimensional accuracy, fitment, and extrusion efficiency.
- Designed and developed custom jigs and fixtures for uPVC window and profile fabrication, improving dimensional accuracy and assembly efficiency.
- Designed manufacturing-oriented jigs and clamps following DFM principles to simplify fabrication, assembly, and maintenance.
- Designed custom working tables and lamination fixtures to improve ergonomics, productivity, and consistency in the lamination process.
- Gained hands-on exposure to uPVC profile extrusion processes, die correction cycles, material behavior, and quality control practices.
- Prepared 2D/3D CAD drawings, Bills of Materials (BOMs), and technical documentation to support new product development and production release.
- Designed and modified downstream frame components using UG NX ensuring proper mounting, spacing, and ease of assembly.

Krishna Ishizaki Auto Pvt. Ltd. – Manesar, India

Diploma Trainee – Research & Development (R&D).

Jan 2022 – Aug 2022 (8 Months)

- Worked in the Research & Development department, supporting product evaluation and engineering improvement activities.
- Conducted product testing and inspection to assess dimensional accuracy, functional performance, and quality compliance.
- Performed 3D scanning of automotive components to capture accurate geometry for design analysis and documentation.
- Executed reverse engineering workflows, converting scan data into CAD models for design modification and redevelopment.
- Assisted in design validation and technical reporting, supporting R&D decision-making and continuous product improvement.
- Collaborated with senior engineers and cross-functional teams to support product development and testing initiatives.

INTERNSHIP

RDSO(Research Designs and Standards Organization), Indian Railways
for Two Month Intern (B.Tech)

- Gained hands-on experience in railway research and design operations, supporting engineering analysis and development activities.
- Assisted in concept design, documentation, and evaluation of rail-related systems and components.
- Engaged in collaborative engineering workflows aligned with rail industry standards and best practices.

DECLARATION.

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.