

# URVESH PANCHAL

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## PROFESSIONAL SUMMARY

Mechanical Engineering student with **internship experience at ISRO**, specializing in **precision design, manufacturing, and testing of advanced cryogenic systems**. Skilled in CAD modeling (SolidWorks, Creo, AutoCAD) and CNC programming, expertise in developing components for high-performance engineering applications. Strong foundation in manufacturing engineering and thermal systems, complemented by certifications in robotics, CNC machining, and advanced design tools.

## EDUCATION

### GOVERNMENT ENGINEERING COLLEGE, MODASA

Bachelor of Engineering in Mechanical Engineering

**Expected: May 2026**

### GOVERNMENT POLYTECHNIC, AHMEDABAD

Diploma in Mechanical Engineering

**May 2023**

## EXPERIENCE

### R&D Intern – Mechanical Systems

*Indian Space Research Organization*

**Jan 2026 – Present**

*Ahmedabad, IN*

- **Designed and manufactured precision components** for advanced cryogenic applications.
- Integrated parts into complex systems and **conducted performance testing to achieve ultra-low temperatures**.
- Supported **vendor coordination and technical evaluations to maintain aerospace-grade quality standards**.

### Training - Robotics & Automations

*Indo German Tool Room*

**Aug 2025 – Sept 2025**

*Ahmedabad, IN*

- Identified **programming and operating KUKA robots** for pick & place, welding, and machining applications.
- Created **robotic programs using Mastercam** and other part programming tools.
- Performed tool and base calibration, robot teaching, and offline programming for automation tasks.

### Summer Intern – Hybrid & EV System and CNC Programing

*International Automobile Centre of Excellence (IACE), Gandhinagar*

**July 2025 – Aug 2025**

*Gandhinagar, IN*

- Identified machining, part programing and CNC lathe operations, including tool setup and part production.
- **Understood machining fundamentals, GD&T, process planning**, tool engineering, and engineering drawing through practical sessions.

## SKILLS

**Technical Skill:** Manufacturing Eng, Thermodynamics, IC Engines.

**Software:** SolidWorks, Creo Parametric, AutoCAD, Mastercam, MS Office.

**Soft Skills:** Team Collaboration, Project Management, Technical Documentation, Problem Solving.

**Manufacturing & Quality:** Testing & Validation, Vendor Technical Evaluation, Procurement Coordination.

## PROJECTS

- Magnetic Pneumatic Operated Vice
- Thomson Mechanism

## CERTIFICATIONS

- \* Solidworks Certification by IGTR.
- \* Robotics & Automation Certification by IGTR .
- \* E&HV Technology and CNC Programming Certification by IACE.
- \* CNC machining and programming Certification by CIPET.