

# Purvang Patel

B Tech Mechanical  
Date of Birth: 29<sup>th</sup> October,1997.

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## PERSONAL DETAILS

- Name : Purvang Pankajkumar Patel
- Institute : School of Engineering and Applied Science,Ahmedabad University.
- Address : A/12 Vallabh Tower,near bhuyangdev char rasta,memnagar,ahmedabad-52.
- Languages Known : Hindi,English,Gujarati,French.

## ACADEMIC DETAILS

Education	Institute / School	Board/University	Year	Results
B. Tech (MECH.)	School of Engineering & Applied Science	Ahmedabad University	2019	74%
HSC	The H.B.Kapadia New High School,Memnagar.	GSHSEB	2015	78%
SSC	The H.B.Kapadia New High School,Memnagar.	GSHSEB	2013	89%

## TECHNICAL ELECTIVES

- ◆ Mechatronics
- ◆ Advanced Machining Method
- ◆ Robotics
- ◆ Renewable Energy Technology
- ◆ Control System Design
- ◆ Production and Operational Management
- ◆ Automobile Engineering

## SCHOLASTIC ACHIEVEMENTS

- ◆ Co-author of “An Investigation into Surface Milling Operation Accompanied By Peltier Chip Cooling Effect”, Published at **International STEM Conference** Under the aegis of the **Vibrant Gujarat Global Summit 2019**.
- Received 50% scholarship for 4 years under “**MUKHYAMANTRI SVAVLAMBAN YOJNA**”

## SUMMER INTERNSHIP

- ◆ Mechanical Engineering intern –“**GSECL**”,**Gandhinagar**. **16– 21<sup>th</sup> July,2018**
  - Studied the functioning of a thermal power plant with capacity of about 630 MW along with understanding its important components like cool conveyor and crusher boiler,condensor,and turbine.
- ◆ Mechanical Engineering intern – “**SOLAR INDUSTRIES**”,**Gandhinagar**. **1– 10<sup>th</sup> July,2018**.
  - Learnt Fabrication of steel structures using CNC and other manufacturing processes.

## PROJECTS

### ◆ An Investigation into Surface Milling Operation Accompanied By Peltier Chip Cooling Effect

**Guide : Prof. Sashi Prakash**

**Team size:5**

**Project description :** Use of peltier chip instead of cutting fluids was investigated during surface milling operation on MS plate. Results indicated that peltier chip is a cost effective solution which reduces the heat generated during machining and provides better surface quality.

### ◆ Study of forming limit diagram and its determination experimentally and with computer Simulation

**Guide: Prof. Varadhrajan Iyer**

**Team size:3**

**Project description:** We Performed deep drawing operation by standard limiting dome height test on aluminium sheet to obtain experimental Forming Limit Diagram and compared it with HYPERWORKS simulation to check theoretical accuracy.

### ◆ Design and manufacturing of box tapping machine

**Guide: Prof. Jaina Mehta**

**Team size:5**

**Project description :** Designed a box tapping machine which can tape the boxes without any manual help based on automation.The machine worked on D.C motors which were controlled using Arduino.

### ◆ Design and manufacturing of axial flow pump

**Guide : Prof. Sashi Prakash**

**Team size:5**

**Project description :** Dimension's of the pump were intially decided based on calculations and using it the CAD model was prepared. The impeller of the pump was made using 3-D printing and the pump efficiently increased the velocity of the fluid.

### ◆ Sun tracking solar panel

**Guide : Prof. Deepak Verma**

**Team size:7**

**Project description :** A sun tracking solar panel with movement in 4 directions possible was made using LDR sensors , stepper motor and Arduino Micro-controller.

## TECHNICAL SKILLS

- ◆ Microsoft Office
- ◆ C-programming (Basics)
- ◆ MATLAB(Basics)
- ◆ AUTOCAD
- ◆ SOLIDWORKS
- ◆ ANSYS
- ◆ LATEX
- ◆ Arduino programming (Basics)
- ◆ CNC programming (Basics)
- ◆ Hyper works (Hyper mesh)

## ACTIVITIES

### ◆ Co-circular activities

- Participated in “ **INGINIUM TECHFEST – 2018**” in the events of **ROBO-RACE** and **ROBO-PAULT**.
- 2<sup>nd</sup> rank in **ROBO-PAULT** during “ **INGINIUM TECHFEST – 2018**” .

## HOBBIES

- Outdoor sports
- Travelling
- Gaming
- Reading
- Music

## DECLARATION

- I hereby declare that the information mentioned above is correct upto my knowledge and bear the responsibility for the correctness of the mentioned particulars.

Place : Ahmedabad

Signature

Date :

Purvang Patel