



# Swapnil Patel

## Electrical And Electronics Engineer

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### PROFILE • ABOUT ME

I am hard-working and self-motivated person, graduated in Electrical and Electronics Engineering. I have experience of working in Quality Control, Maintenance, In-house Service and R&D department.

Currently I am working at Equipment manufacturing company, my role is defined as a duo of In-house Service cum R&D Engineer. To elaborate, I am responsible for In-house repairs (i.e. handling and repairing all equipment) and as this gives me adequate know-hows of the product so I have best Insights about Durability, Performance, Quality, Accuracy and Feasibility of products so I have to use all this knowledge, improvise it and then Implement it in my second role, As R&D Engineer I get opportunity to work in improving existing product portfolio as well developing new product for the company. I have handled Designing, Checking, Cost Evaluation as well as finalizing of new innovative projects. Looking to my dedication towards work, I am also a key part of the new First-in-India kind of Laboratory.

My attitude of being practical and positive towards any problem is my strength and my hobbies are working with Electronics components, Public Speaking, Power-point presentations, Automobiles and Cycling.

### EDUCATION HIGH SCHOOL

- MGM School  
10th Board GSEB – Vadodara, Gujarat  
Completed, March 2012  
Marks 73%
- MGM School  
12th Science GHSEB – Vadodara, Gujarat  
Completed, March 2014  
Marks 58%

### B TECH ELECTRICAL & ELECTRONICS ENGINEERING,

- Navrachana University  
Vadodara, Gujarat  
Marks 5.9 [CGPA]

### WORK EXPERIENCE

#### INTERNSHIP (Production department)

Analab Scientific Instruments Pvt Ltd  
(An ISO 9001: 2008 certified company)

May 2015 - Aug 2015  
Vadodara, Gujarat

### **APPRENTICE (QC and Maintenance department)**

Amit Rail Track Pvt Ltd  
(An ISO 9001: 2008 certified company)  
Amit engineering works group of industries

*Oct 2018 - Mar 2019  
Vadodara, Gujarat*

### **IN-HOUSE SERVICE CUM R&D ENGINEER (Service and R&D department)**

Prima Equipment  
(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018; IMS certified company)  
*Vadodara, Gujarat*  
Prima Group Company

*Currently Working since Nov 2019*






### **AWARDS & HONORS**

- In 2014, Secured 3rd position at Open Vadodara District level Cycling Competition
- In 2014, Secured 4th position at Open Gujarat State level Cycling Competition
- In 2015, Secured 3rd position at Open Vadodara District level Cycling Competition

### **SKILLS**

- Ability to communicate
- Project Management
- Public Speaking
- Leadership
- Event Organizing and Management
- Power-point Presentation
- Programming

### **COMPUTER PROFICIENCY**

- Matlab 
- Multisim 
- Modelsim 
- Bascom AVR 
- AutoCAD 

### **LANGUAGES**

- Hindi
- English
- Gujarati

### **CAREER HIGHLIGHTS**

- Love and Passion for working in Electronics field to Improve Quality Day to Day life.
- Working as Electronics and Robotics Project Consultant.

### **PROFESSIONAL AFFILIATIONS**

- Energy Audits and Saving
- Controlling Robots using Accelerometer
- Entrepreneurship (Aarambh 2016)
- Introduction of Power Generation Station & turbo
- Solar Technology
- Indian Electricity Market and Smart Distribution grid

## PERSONAL INTERESTS

- Outdoor sports
- Writing
- Listening Podcasts

## EXTRA CURRICULAR ACTIVITIES

- Organising and Management of Events
- Project Consultant since 2017

## PROJECTS

- **Recumbent Trike**

- Period: June 2015 - October 2015
- Skills Used: Engineering Drawing, Mechanical Design, Cost Effectiveness, Best out of waste utilizing, Operating Mechanical Tools etc.

This Project was initiated as a thought of something which can give comfort and safety of Car and Raw driving feel of Cycle. It was designed as a 3-wheel Project wherein driver seating position is slanting position and not in upright which is there in general cycle. It was a mono-user vehicle. It was such dynamic that it feels like driving a Go-kart powered by paddle. A low seating position, surround metal frame helped in achieving our requirements for this project.

This kind of product is been used as leisure vehicle which stands out of the crowd.

- **Smart Unmanned Wireless Controlled Robotic Vehicle**

- Period: October 2017 - May 2018
- Skills Used: Electronics sensors interfacing, Mechanical Design, Programming.

This Project was basically a compact and handy vehicle with tank lookalike design having features such as surveillance camera, robotic arm, metal detector and collision avoidance system.

This kind of product is been used across the globe by Cricket Sports broadcasting, Defence Surveillance and Combat systems with similar features.

- **Hybrid Petrol-Electric vehicle**

- Period: July 2019 - October 2019
- Skills Used: Programming, Circuit Design

This was one the major projects performed as Project Consultant. The aim was to develop a Electric kit which could be integrated in existing 2-wheeler moped. We thought of a product which could bridge gap of transforming Auto industry from IC engines to Electric Powered Vehicle.

While we used existing Moped as base vehicle, we embedded EV kit and I particularly handled the Switching mechanism which takes place between IC engine and Electric Motor. This project was quite challenging as Cost factor from OEM was major and making it user friendly was another major challenge.

## PERSONAL INFORMATION

- Father's Name: Mr. Paresh Patel
- Birthday: October 23, 1996
- Gender: Male
- Marital Status: Single
- Nationality: India

### Swapnil Patel



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