

## HARDIK PATEL

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### Professional Profile

Seeking an entry level job position in a reputed engineering firm, in order to build a long term career by investing the best of my technical knowledge and educational qualification and serve the organization with an outstanding output.

### Experience

#### 1. LightSpeed Mobility Pvt. Ltd, Ahmedabad

Work as a Sr. Electrical Engineer in the technical department, from March 2017 to present.

##### Key responsibilities:

1. Support the development and sourcing of the components of the vehicle.
2. Working on the battery management system and Controller to increase the life of the battery and for the security of the E bike.
3. Designing a new controller with new technology and feature.
4. Contribute to product growth by generating and implementing innovative solutions for the product.
5. Analyze and quantify issues in manufacturing, product development, and sourcing to improve the performance, and customer satisfaction with the product.
6. Support the product engineering team with analysis, dashboards, reports etc. to drive product development.
7. Manage the team and the product development time plan to meet project and product deadlines.

#### 2. Essar Steels India Pvt. Ltd, Hazira, Surat

Work as an industrial Project trainee in the instrumentation department in **Essar Steels Pvt. Ltd, Hazira, Surat**, from August 2014 to May 2015.

##### Key Responsibilities:

I done Interfacing of PLC system with peripherals, calibration of transmitters, PLC programming, hardware configuration of PLC to PLC drives using ProFibus communication and SCADA designing.

### Educational Qualification

<b>M.E</b>	<b>Electronics &amp; Communication</b>	<b>Aug - 2013 to May- 2015</b>
<b>Institute</b>	:	Parul Institute of Technology, Vadodara, Gujarat Technological University
<b>Dissertation</b>	:	Submitted Thesis Entitled: “Efficient Motor Body Temperature Control System”

**CGPA score : 8.22/10 – Distinction**

**B. E Electronics & Communication Aug - 2009 to May- 2013**

**Institute :** Parul Institute of Engineering and Technology, Vadodara, Gujarat  
Technological University

**Major Project :** “Automatic Toll Collection System Using RFID Tag”

**CGPA score : 6.95/10 – First class**

**H.S.C SCIENCE June - 2007 to March- 2009**

**School :** S. G. & D. N. Patel Sarvjanik High school, Valod, Gujarat Higher  
Secondary and Secondary Education Board, Gandhinagar.

**Percentage : 70.00 % - Distinction**

### Certificates

- Obtained **TÜV Rheinland** Germany certificate of Post Graduate Diploma in Embedded System Hardware and VLSI system from the SMEC automation (AN ISO 9001:2008, Authorized System Integrators of Schneider Electric, **France**) Kaloor, Cochin.
- Certification in **PG Diploma in Embedded System Hardware and VLSI** from SMEC Automation, Kaloor, Cochin.
- Obtained **Dissertation/Project work** certificate in the Central Automation department from the **Essar Steels Pvt. Ltd, Surat, Gujarat.**
  - **Certificate No. V.T/M. E/196/14-15.**

### Training Period

- Trained in RF and DT Engineer at A V outsource Telecom, Jaipur.

Modules :  
1. Drive Test  
2. RF engineering  
3. EMF Test  
4. SCFT Drive  
5. Cluster Drive  
6. Microwave link

- Trained in Embedded and VLSI at SMEC Automation, Kaloor, Cochin, Kerala.

Modules :  
1. Micro controller – ATMEGA32, ARM 7, PIC  
ATMEGA328(Arduino), ARM 11 (Raspberry Pi)

2. VLSI
3. PROTEUS Schematic and Simulation.
4. OrCAD Capture and Layout PLUS.
5. Wireless Technology – GSM, GPS, ZigBee, RFID, Bluetooth, WIFI, Fingerprint
6. Hardware component familiarizing with Testing and Trouble Shooting
7. Communication Protocols – I2C and SPI
8. Analog and Digital Sensor
9. Basic Concept of RTOS.

## Technical Skills

- Expertise in PLC Ladder Diagram Program, SCADA Designing, HMI creation, DCS System, Industrial Sensor and Interfacing with Transmitter and also with PLC.
- Control System
- Drive test, RF Survey, Telecom Operator.
- ATMEGA 16/32, PIC Micro Controller, ARM 7, Arduino, Raspberry Pi ARM 11 all controllers Programming and Troubleshooting.
- Hands on Experience on Simatic Step 7, TIA Portal, WinCC Flexible in Siemens PLC and PLC Motor Drive.
- Hands on Experience on AVR ATMEGA16/32 Controller Board, ARM 7 controller Board, PIC 16F877A Controller Board, Raspberry Pi – ARM 11 Controller Board, Arduino Controller Board, SPARTAN 3 Kit.
- PCB Layout Designing and Simulation, Embedded C, Micro controller C Programming, VHDL programming, Circuit Troubleshooting and Fault Detection.
- Knowledge of Electronics Component, Basic Knowledge VLSI and Embedded system.

## Transferable Skills

<b>Software Skills</b>	:	DCS, PLC (Simatic), Mat lab, Xilinx v13.1, Keil, Multisim, Microsoft Office, ATMEL Studio, Proteus v7.0 Design Suit, MPLAB IDE, OrCAD, Arduino, Python Shell, Model Sim.
<b>Organizational Skills</b>	:	Planning skill, Decision making, Problem solving skills
<b>Social Skills</b>	:	Listening, Team work
<b>Computer skills</b>	:	Assembling Computer, fault- detection and maintenance.

## Co-Curricular Activities

- Make a number of minor project in daily life as well as in academic career.
- Actively participated in ROBOTIC workshop throughout the academic career at various venues.
- Participate in Projection 2012 held at Parul Campus.
- Participate in “SANGIT VISHARAD” examination in 2005.

## Paper Publication

- Published research Paper in National Conference on Emerging Vistas of Technology in 21<sup>st</sup> Century in Apr-2015.

**Topic: Designing a system using PLC and PLC drive for controlling and measuring the flow.**

### Personal Detail

- DATE OF BIRTH : 24<sup>th</sup> December, 1991
- HOBBIES : Listening music, Playing Casio, Travelling
- LANGUAGE : English, Gujarati, Hindi
- NATIONALITY : Indian
- PASSPORT No. : M9049228

### Declaration

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

**Date:**

**Place:**

**Yours Faithful,**  
Hardik M Patel