

RESUME

Vishal Amrutlal Patel

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➤ **CAREER OBJECTIVE:**

To make the optimum use of my strength and capabilities to get the best result and to contribute the maximum share in the success journey of the organization.

➤ **EDUCATION QUALIFICATION:**

- Master of Technology in Electrical Engineering (Power Electronics Machines & Drives) passed with first class Distinction in 2016 from Institute of Technology, Nirma University, Ahmedabad (Gujarat).
- Bachelor of Engineering in Electrical & Electronics Engineering passed with first class Distinction in 2014 from Faculty of Engineering, Rajpur, Kadi (Gujarat).

➤ **CAREER GROWTH:**

- Presently working as **Asst. Executive (R&D)** since October 2017.
- Joined Amtech Electronics (India) Ltd as a **GTE (R&D)** in October 2016.

➤ **SPECIFIC EXPERIENCE:**

On-going project:

- Design and development of 690 V SMPS with two switches for AC drives.
- Design and development of 30 V, 500 A Synchronous Rectifier Power supply.
- Design and development of 20 kW full bridge LLC Converter.
- Design and development of DC-DC Converter for Six Parallel IGBT gate driver Power supply.

Project executed:

- Design and development of 400 V SMPS for AC drives.
- Design and development of 690 V SMPS for AC drives.
- Design and development of DC-DC Converter for IGBT gate driver Power supply.
- Design and development of voltage, current, power and power factor measurement at 1 MHz.
- Design and development of 1 MHz, 40 kW Power supply.

➤ **JOB RESPONSIBILITIES:**

- Hardware design and development for the new product.
- In-house product verification and validation as per the criteria/specifications.
- Documentation of all activities as per the quality system, which includes preparation of design documents and their transfer to engineering department.
- Design and development of all product based on UL standards.

- Vendor development for transformer manufacture & material supply.
- Modification/up-gradation of the hardware for the existing products/new developed products.
- Contribution to design review and validation.
- Expertise development on Magnetics products and SMPS.
- Side support related problem solution of SMPS, DC-DC converter, Pulse Transformer.
- Inter department support in QC department for incoming material testing and PCB department for PCA testing.

➤ **Academic project work**

- **M.Tech (3 & 4 SEM) in AMTECH Electronics (India) Ltd.**

Duration: - 7th June'15 to 10th May'16

Design & Development of voltage & current Transformers for High Voltage & High Current at High Frequency.

Selection of Core for Current Transformer and Voltage Transformer.

Design & Development of Voltage, Current, Power & Power Factor Measurement circuit at 1 MHz Frequency.

- **M.Tech (2 SEM)**

SMPS Design (Fly Back Converter & Push Pull Converter for 12 V and 2 A, 20 kHz Frequency).

- **B.E (7 & 8 SEM)**

Railway Accident Prevention System

➤ **SKILLS:**

- I have knowledge of magnetics components. I have knowledge of power electronics.
- I have knowledge of software packages like PSIM and MultiSim.
- I possess good leadership skill, communication skill, documentation skill, troubleshooting skill, and analyzing capabilities.

➤ **PERSONAL DETAILS:**

Current /Permanent Address	B-14, Rushikesh Park, Nr Vidhyasagar high school, Bopal Ghuma road, Ahmedabad-380058 Gujarat
Contact Number	(M)+91 7016446857
Date of Birth	15 th February 1993
Gender	Male
Language Known	English, Gujarati, Hindi
Nationality	Indian
Status	Married
Caste	Hindu
Hobby	Cricket, Reading