

# CURRICULAM VITAE

## SHREASTHA VARUN

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## OBJECTIVE

To seek long-term association with an organization/institution to utilize my abilities and update my skills in various technologies that gives me professional growth while being enthusiastic, innovative and flexible.

## EDUCATIONAL QUALIFICATION

Year Of Passing	Degree	University/ Board	CPI/ % score
2021	ME-EEE	SGSITS, Indore (Rajiv Gandhi proudyogiki Vishwavidyalaya)	I SEM-8.86 SGPA II SEM-8.33 SGPA III SEM- 9 SGPA IV SEM- result awaiting
2017	B.E. – EEE	MIT, Mandsaur (Rajiv Gandhi proudyogiki Vishwavidyalaya)	7.3 CGPA
2013	XII – PCM	Emerald Higher Secondary School, Jaora (MP Board)	57%
2010	X	St.Peter’s Higher Secondary School, Jaora (CBSE)	9.0/10

## ACADEMIC ACTIVITIES

### **INDUSTRIAL TRAINING:**

#### ▪ **Training at Bharat Heavy Electricals Limited, Bhopal (August 2016):**

Successfully completed one-month training at BHEL, Bhopal. This training provided me the basic exposure of various manufacturing processes, testing, handling and working of various heavy electrical equipment in the industry. Training was primarily focused on Transformers with capacities up to 1000MVA, and Reactors, Switchgears (Tape Changers, Relays, Control Panels), AC Machines, Turbines, Traction Motors, Capacitor Bank, Insulation etc. We also got the chance to appreciate the on-going high voltage testing on Transformers up to 1100kV at UHV (Ultra High Voltage) Laboratory, accredited to be one of the largest electromagnetically screened laboratories in the world.

#### ▪ **Training at Sri Ram Group of Industries, Ratlam (February 2016):**

Training illustrated Transformers ranging up to 50MVA (132kV class).

## KEY ACADEMIC PROJECTS

### • **Thesis: Integration of Solar to Vehicle (S2V) and Vehicle to Grid (V2G) Energy Transfer Technologies**

In this project we focused on the solar power charging of the EV as well as demonstrating the concept of vehicle to grid (V2G). In S2V operation mode we observe charging of EV battery from photovoltaic systems through bidirectional DC-DC converter. In V2G operation mode the energy stored in the EV battery is fed to the grid with the help of DC-DC bidirectional converter and DC-AC inverter. The proposed model is built and designed in MATLAB/Simulink environment.

### ▪ **Major Project: Dual Tone Multi Frequency (DTMF) Home Automation Using Microcontroller:**

The main principle of the circuit is to control appliances like light and fan using DTMF technology. DTMF encoder is present in our mobile and decoder is HT9107B IC. Mobile jack is connected at 1nf capacitor. Mobile jack consists of two wires (Red and black). Red wire is connected to the decoder IC and Black is

grounded. When a button is pressed from mobile it generates a tone which is decoded by the decoder IC and it is sent to ATMEGA8 controller. Controller then checks for input and it produces the output according to the code written to it.

▪ **Minor Project: Fire Alarm Protection:**

The circuit is a thermistor-based fire alarm that uses thermistor as heat sensing element. Whenever temperature increases beyond 100 °C the thermistor provides a low resistance as a result of which a fire alarm is activated. The circuit is also integrated with fire suppression systems.

## **INDUSTRIAL VISITS**

- Ruchi Soya Industry Ltd., Daloda, Madhya Pradesh
- Welspun Solar MP Project, Neemuch, Madhya Pradesh
- Gandhi Sagar Hydro Power Plant Indira Gandhi Nagar, Mandsaur, Madhya Pradesh

## **TECHNICAL SKILLS**

Matlab, HTML,C language, Photoshop

## **EXTRA – CURRICULAR ACTIVITIES**

- Co-ordinator for Paper Presentation Competition in Techfest2k16 at MIT, Mandsaur (2016)
- Managed various cultural celebrations in college
- Participated in volleyball, cricket and badminton in Intra-college Sports Festival at MIT, Mandsaur
- Anchored in Intellectual Property Rights Seminar at MIT, Mandsaur, Opening ceremony in Techfest2k16 at MIT, Mandsaur and many other events
- Won second position in Paper Presentation Contest in Techfest2k16 at MIT, Mandsaur (2016)
- Won second position in Business Idea Presentation at Felicity-15 at MIT, Mandsaur (2015)
- Won second position in Quiz Competition at Felicity-15 at MIT, Mandsaur (2015)
- Won second position in Nukkad Natak at Felicity-15 at MIT, Mandsaur (2015)
- Volunteered for presenting Radar Imaging Satellite (RISAT) in **Vikram Sarabhai Space Exhibition-2016**, organised by ISRO
- Won first position in Poster Making Competition on Save Electricity at MIT, Mandsaur (2016)
- Won third position in Departmental Paper Presentation Contest organized under AIEEE (Association of Innovative Electrical & Electronics Engineers)
- Participated in Robotics Workshop organised by IIT Bombay at MIT, Mandsaur.

## **HOBBIES / INTERESTS**

Singing, Dancing, Playing Guitar, Reading Novels, Swimming

## **DECLARATION**

I hereby declare that mentioned information is correct up to my knowledge and i will solely be responsible for any discrepancy found in them.

Shreastha Varun