



## Hemant Singh

Bachelor of Technology  
Electrical Engineering  
Malaviya National Institute of Technology  
Jaipur

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### ACADEMIC DETAILS

Year	Degree/Class	Institute	Percentage/CGPA
2013-2017	B.Tech Electrical Engineering	Malaviya National Institute of Technology, Jaipur	8.14/10 (up to VI Semester)
2012	XII Central Board of Secondary Education	Kendriya Vidyalaya No.1 Armapur, Kanpur	95.6%
2010	X Central Board of Secondary Education	Kendriya Vidyalaya No.1 Armapur, Kanpur	9.6 CGPA

### KEY PROJECTS

#### IoT based 'DIGITAL FARMING'

(January 2016 to March 2016)

**Guide-** Dr. Anil Swarnkar, Assistant Professor, Department of Electrical Engineering, MNIT Jaipur.

- Designed and developed an automatic irrigation system based on real-time monitoring of field using sensor node, WSN and Android app interface.
- Used ESP8266 Wi-Fi module to send the sensor data to ThingSpeak platform over the Internet.
- Selected in top 5 teams based on working prototype in the finals of GE EDISON CHALLENGE 2016 held at GE India Technology Center, Bangalore.

#### Condition Based Monitoring using MEMS-based sensor

(April 2016)

**Guide-** Mr. Hemant Meena, Assistant Professor, Department of Electrical Engineering, MNIT Jaipur.

- Objective of the project was to receive real world physical signal to analyze it.
- Developed a program to receive sensor data from Accelerometer sensor in MATLAB via serial communication.
- Application:** Analyzing vibration pattern of industrial machines to detect incipient faults.

#### Indo Asian Solar Vehicle Challenge 2015

(Dec-2014-Apr 2015)

**Guide-** Dr. Rajesh Kumar, Associate Professor, Department Of Electrical Engineering, MNIT Jaipur.

Dr. Harlal Singh Mali, Assistant Professor Department of Mechanical Engineering, MNIT Jaipur

- Designed and developed Solar-cum-battery powered rear-wheel drive electric vehicle (EV).
- The design of EV was 3-wheeled tadpole-shaped powered by BLDC hub motor with a battery bank of 4 lead-acid batteries.
- The team secured **2<sup>nd</sup> position** in the virtual round as well as in the dynamic round of challenge.

#### BAJA SAEINDIA 2015

(Aug 2014-Feb 2015)

**Guide-** Prof. S. L. Soni, Professor, Department of Mechanical Engineering, MNIT Jaipur.

- The team under the membership of SAE Collegiate Club fabricated, All-Terrain Vehicle (ATV) for the competition BAJA SAEINDIA 2015.
- Worked in Electrical and Electronics Department of the team.

## TRAINING AND INTERNSHIP

### **Rajasthan Electronics & Instruments Ltd (REIL), Jaipur**

(May 2016 to July 2016)

- Solar Photovoltaic Module Production, Electronic Milk Tester Machine, PCB design flow, Quality Assurance and Testing

### **Siemens Ltd, Gurgaon**

(July 2015)

- Power plant layout, Earthing grid designing, Emergency diesel generator set sizing

## SCHOLASTIC ACHIEVEMENTS

- School topper in 12<sup>th</sup> Standard, Received cash prize from Kendriya Vidyalaya Sangathan
- Got certificate of Merit in PHYSICS for being among the top 0.1 % of successful candidates of 12<sup>th</sup> Standard

## EXTRA-CURRICULAR

- Won 2nd prize in CIRKART-Circuit making competition at Blitzschlag 2016- Annual Tech Festival of MNIT Jaipur.
- Office executive of Electrical Engineering Society, EE Department, MNIT Jaipur.
- Participated in Intra-College cricket tournament.
- Organized photography event in Blitzschlag 2014- Annual Tech Festival of MNIT Jaipur.
- Attended seven day Robotics Workshop organized by Robotics & Research group of MNIT Jaipur.

## HOBBIES AND INTEREST

- Reading technical articles