

Hemant Singh

Bachelor of Technology
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EDUCATION

MNIT JAIPUR

B.TECH IN ELECTRICAL
ENGINEERING
2013 - 2017
CGPA : 8.11/10

KENDRIYA VIDYALAYA NO 1

Class XII
Aggregate : 95.60%
Class X
CGPA : 9.6/10

LINKS

Github:// [hemant-1332](#)
LinkedIn:// [hemantsingh-ee1332](#)
Academia:// [HemantSingh](#)

COURSES

UNDERGRADUATE

Modern Control System
Communication systems
Digital Signal Processing
Signals and Systems
Network Theory

ONLINE

Intro to Machine Learning, Udacity

SKILLS

LANGUAGE

Python • C++ • C

Familiar:

CSS • HTML • \LaTeX

SOFTWARE

Matlab • Proteus • PyCharm

• Arduino IDE

HARDWARE

Arduino • RPi • ESP8266

OS

Windows • Linux

INTEREST

ACADEMICS

• Computer Vision

HOBBIES

• Reading

INTERNSHIP

RAJASTHAN ELECTRONICS & INSTRUMENTS LIMITED | SUMMER INTERN

May 2016 - July 2016 | Jaipur, India

• Solar photovoltaic module development, Off-the-grid and Grid connected solar system, PCB design and assembling, Quality Assurance of electronic products

SIEMENS LTD | SUMMER TRAINING

July 2015 | Gurgaon, India

• Trained in Power Generation department of SIEMENS LTD INDIA. Major topics covered under training period were :
• Power plant layout • Emergency diesel gen-set • Earthing fundamentals- design and calculation • LV and MV cable selection and sizing

PROJECTS

A SMART ANIMATRONIC HUMAN FACE | FINAL YEAR B.TECH PROJECT

Dec 2016 - May 2017

• We developed a personal assistant robotic face that can interact with the user and respond to commands with the help of audio-visual support system.

Key features includes :

- 3D printed facial parts made out of ABS material
- Voice command based motion (eg. surprise, laugh, turn left)
- Human face detection and recognition
- Real-time face tracking
- Audio and visual based question-answering system

IOT BASED DIGITAL FARMING | GE EDISON CHALLENGE 2016

Jan 2016 - March 2017

- 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.

ELECTRIC VEHICLE | INDO-ASIAN SOLAR VEHICLE CHALLENGE 2015

Dec 2014 - April 2015

- 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.

EXTRA-CURRICULAR

- Won 2nd prize in CIRKART-Circuit making competition at Blitzschlag 2016- Annual Techno-Cultural Festival of MNIT Jaipur.
- Attended seven day Robotics Workshop organized by Robotics & Research group, MNIT Jaipur.