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 COURSEWARE
Intro to Machine Learning - Udacity

SKILLS

LANGUAGE
Python • 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 Training
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 intern
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
• 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
• Hardware was interfaced with Raspberry Pi and programming was done in Python on a Linux based machine.

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.