KARTIK VASHISHT

Electronics and Communication Engineering

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Career Objectives: The future objective and aims of my life are to gain as much knowledge as I can and use that knowledge in implementing solutions and engineering things that can help in solve in daily life problems. I am enthusiastic about electronics and communication and want to explore deep in this field. I want to contribute toward making the world a simpler, better, safer place. So I want to learn and work with new skills, fields, gadgets and experts in my future.

Education:

Exam	Institution	Year of Passing	GPA or %				
B.Tech.	NIT, Kurukshetra	2020 (still not completed)	5^{th} S	4^{th} S	3^{rd} S	2^{nd} S	1^{st} S
			9.0	9.592	9.4	9.48	9.14
			Aggregate CGPA: 9.38				
12^{th} Board (RBSE)	Navodaya Bal Sr. Sec. School, Kota, Rajasthan	2016	89.8%				
10^{th} Board (CBSE)	Cambridge School, Srinivaspuri, New Delhi	2014	10				

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Projects:

1. Made a prototype on Smart Irrigation System based on soil moisture and temperature that can be controlled automatically and manually from a remote location.
2. Created a model of mocking the action of a bee using PlutoX drone under the theme Pollinator Bee in e-Yantra Robotics Competition-2018.
3. Created a TIC-TAC-TOE with the help of Basic Image Processing using Python.
4. Gesture Controlled Robot using Accelerometer and Bluetooth Sensor, controlled using remote or Self Made Mobile App (using MIT app inventor).
5. Obstacle Detection and Avoidance Robot using ultrasonic sensor.
6. Created Smart lighting, Christmas lighting, Emergency alarms and many models using Arduino.
7. Created a Best-out-of-Waste Hydraulics bridge using syringe and ice cream sticks.
8. Created an Electricity Generator using Dynamo and rotating wheel.
9. Designed Line-Following Robot with and without microcontroller.

Training and Internship:

- Attended summer training in Embedded Systems and IoT using PIC microcontroller.
- Enrolled in online courses on Solar Energy (by Deft University), Internet of Things (by SchoolSteps and PTC).
- Attended workshops on IoT using Raspberry Pi, Verilog HDL, Embedded Systems using Atmega8, Single Layer PCB designing

Research Publication:

1. Worked with few batch mates on understanding and exploring the data rate and communoication through LiFi.
2. Worked under the guidance of a professor in understanding the basic working and possible role of Device-to-Device Communication(D2D) on 5G.

Technical Skill:

- Has exposure to IoT using ESP8266 and NodeMCU in Arduino IDE and ESPlorer.
- Worked with Hardwares like Arduino, ESP8266, Raspberry Pi.
- Familiar with languages like Verilog HDL, C-Programming, Python.
- Worked on Image processing using Python, Photoshop, MATLAB, Proteus, Cisco Packet Tracer, ESPlorer, ModelSim.