**HARSH KUMAR SINGH**

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Agra

**CAREER OBJECTIVE**

To be a part of an organization where I can fully utilize my skills and make a significant contribution to the success of the institution and at the same time my individual growth.

**EXPERIENCE**

Oxygen 2 Innovation: *Robotics Engineer,* Jan’19 – Present

* Made projects for paramilitary forces (CRPF, RAF).

Microcontroller Based Systems & Robotics Hub, JIIT Noida:*Head Student Coordinator*, July’17- June’18

* Given lectures on manual, autonomous robotics, wireless communication, IOT for college students.
* Managed internal and external affairs.
* Successfully organized and managed a total of 14 events (2016-18) in annual cultural and technical fests of the college.

**TECHNICAL SKILLS**

* Areas of Interest:Robotics, AI, ML, IOT, Web Dev, Project &Team Management
* Programming Languages:C/C++, Java, JavaFX, Arduino, Node.js, Python
* Software Skills: VS Code, Git, Docker, OpenCV, Image Processing, YOLOv3
* Hardware Skills:Embedded Systems, Arduino, ESP8266, ESP32, nRF24L01+, LinkIt One, Raspberry Pi, Pixhawk,
* Operating System: Linux, Raspbian, Windows
* Database: MySQL, H2, MongoDB

**KEY PROJECTS**

* **Smart Switch**: A system that enables any electrical socket to be controlled via internet.
* **Event Registration**: App that automatically fetches the data of the participants registered in previous event.
* **WhatsApp Chat Analyser**: App that plots the graph between the day of the month and number of messages.
* **Quadcopter**: Quadcopter with custom made remote and flight controller.
* **Tilt Rotor Tricopter**: Multicopter which can be converted to plane during flight.
* **Self-Balancing Bot**: Bot which can balance itself on two wheels.
* **Rescue Bot**: Bot that senses and send live footage of the scenario of a collapsed building to the outside world.
* **Alarobic Clock**: A alarm clock that turns off when doing a particular exercise.
* **Head Gesture Controlled Wheelchair**: A wheelchair that can be controlled with head gestures.
* **Pit Filler**: An autonomous bot that detects and fills the pits in its way.
* **Wireless Controlled Bot**: Bot that can be controlled via internet, limited ranged remote, or Bluetooth.
* **Queue Time Estimator**: Based on the queue density, it calculates the approx. time taken to reach the counter.
* **Smart Mirror**: An easy way to get updated with the weather, health monitoring etc. when we wake up in the morning.
* **Wearable**: An IOT integrated system on LinkIt One board for Health Monitoring and Position Tracking of the person.

**ACHIEVEMENTS & HONORS**

* Presented **Research Paper** in **IC3 Conference 2019** on the topic “A step towards Home Automation using IOT”
* **2nd Prize** in Technocreed’15, and **3rd Prize** in Impressions’16 (LFR), Techfest held at JIIT, Noida.
* **2nd Prize** in Manual Robotics 2015, held at SRM University
* **2nd Prize** in Technovoltz, during Techfest’15, held at IIT, Bombay.
* **1st Prize** in Automation, during Cyber Srishti 2016, Techfest held at JIIT, Noida.
* **2nd Prize** in Robocon, during ESYA’16, Techfest held at IIIT, Delhi.
* **2nd Prize** in LFR, during Endeavour’17, Techfest held at KIET, Ghaziabad.
* **2nd Prize** in Project Exhibition during Cyber Srishti 2019, Techfest held at JIIT, Noida.
* Participated in Project Exhibition during IC3 Conference 2016 & 2017, held at JIIT, Noida.
* College Ambassador in Techfest’16, a Techfest held at IIT, Bombay.
* Participated in Mesh Flare, during Techfest’16, held at IIT, Bombay.

**EDUCATIONAL QUALIFICATION**

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| Degree | Discipline | Institute | Location | Year | CGPA/% |
| B. Tech. | Computer Science | Jaypee Institute of Information Technology | Sec 62, Noida | 2019 | 5.7 (7.7 8th Sem) |
| Senior Secondary | CBSE | Delhi Public School | Agra | 2015 | 91.6% |
| High School | CBSE | Delhi Public School | Agra | 2013 | 9.0 |

**PERSONAL PROFILE**

**DOB:** 03-10-1997 **Languages Known:** English, Hindi **Preferred Location:** Delhi NCR

**Gender:** Male **Hobbies:** Listening Music, Working on Challenging Projects