

# 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.

## EDUCATIONAL QUALIFICATION

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

## EXPERIENCE

Oxygen 2 Innovation: Robotics Engineer, Jan'19 – Present

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

Microcontroller Based Systems & Robotics Hub, IIIT Noida: Head Student Coordinator, July'17- June'18

- Given lectures on manual, autonomous robotics, wireless communication, IOT for 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> year students.
- Managed internal and external affairs.
- Successfully organized and managed a total of 14 events in annual cultural and technical fest of the college.

## TECHNICAL SKILLS

- Programming Languages: C/C++, Java, JavaFX, Arduino, Node.js, Python, PHP
- Areas of Interest: Embedded Systems, Robotics, IOT, App Dev, Web Dev, Project & Team Management
- Software Packages: Arduino IDE, NetBeans, Code Blocks, Atmel Studio, VS Code, MS Visual Studio
- Hardware Skills: Arduino, ESP8266, LinkIt One, Raspberry Pi, Pixhawk, Wireless Communication (nRF24L01+),
- Operating System: Linux, Ubuntu, Raspbian, Windows
- Database: MySQL, H2, MongoDB

## KEY PROJECTS

- EVENT REGISTRATION: App that automatically fetches the data of the participants registered in previous event.
- WHATSAPP CHAT ANALYZER: 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.
- IOT ELECTRICAL SWITCHES: A device that enables any electrical socket to be controlled via internet.
- 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

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

## PERSONAL PROFILE

**DOB:** 03-10-1997      **Gender:** Male      **Nationality:** Indian      **Languages Known:** English, Hindi  
**Preferred Location:** Noida, Delhi, Gurugram      **Hobbies:** Listening Music, Working on New Projects