Abhishek Kumar Singh
Anand Puram, Rajendra Nagar.
Gorakhnath, Gorakhpur - 273001

Email-id : **singhsterabhi@gmail.com**
+91 - 7503024739 , **singhsterabhi.tech**

ACADEMIC DETAILS

Program	Institute	Year	% Marks
B.Tech. in Electrical Engineering	JSS Academy of Technical Education, Noida	2018	64.54
XII/ISC	St. Joseph's High school, Gorakhpur	2013	88
X/ICSE	St. Joseph's High school, Gorakhpur	2011	86.28

TECHNICAL SKILLS

- **Languages & Tools** (C, Python, JavaScript, MATLAB), **Design** (Photoshop, Illustrator)
- **Development** (Django/ Angular/ Firebase- Fullstack web development. ElectronJS/ NodeJs- Desktop app, RPi/Arduino- Embedded Systems). Firebase- Integration with iot devices(RPi).
- Machine Leaning libraries- Tensorflow, scikit-learn. Computer vision - OpenCV. Other Python libraries- Numpy, Scipy, Matplotlib.

RELEVANT COURSEWORK & PROJECTS

- **DS & Algorithms, Machine Learning**, **Computer Vision**, **Embedded Systems, Signals & Systems**
- Recipient of Google India Challenge Scholarship: Mobile Web *(Udacity)* (2018). Learnt the complexities of the web and development on the mobile platform.
- Web, Cloud, Open Source and Mobile app Development workshop. *(JSS Noida, June'15)*
- **Wireless Home Security and Automation system.** *(Aug-june,2018)* B.Tech. project. Development of a security and wireless control system for appliances and detection of intruders, etc., remotely.
- Simulation of Fuzzy Logic controller. *(2016-17)* Simulated the use Fuzzy Logic as a controller in a system.
- **Web Development.** Developed multiple websites ranging from landing pages to multifunctional platforms such as for blogging, quiz portals.
- Line following Robot.*(Zealicon, 2015)*. Tram.*(Zealicon, 2016)*

PROFESSIONAL EXPERIENCE

- **CNDE, IIT Madras** (Research Project) *(Guide:Prof. Prabhu Rajgopal. , June'17 - July'17)*
  - Inline inspection of gas and oil pipelines using various **image processing** techniques using an automated droid working on rpi.
  - Implementation of **Image dehazing, enhancement, Mosaicing and segmentation** for detection of leaks welds and corrosions.
- **Samshek Fashion Pvt. Ltd.** (R&D) *(Sept'16 - May'17. Aug'17 - Nov'17)*
  - Research and Development of an semi-automated robotic sewing machine.
  - Recognition of stitching patterns and cloth pieces using **computer vision** to be stitched. Development of a desktop **GUI** as interface for the system.

POSITIONS OF RESPONSIBILITY

- **Google Developers Group JSS Noida.** *(Organizer/Developer. Feb'16 - present)*. Conducted various workshops, talks and events on Open Source and other technologies.
- **Oorja Electrical Society** & **Electrique Newsletter.** *(Creative Head. Sept'15 - present)*. Designing and publishing of a newsletter for electrical enginnering department every semester.
- **Core team Committee member, 2018.** Responsible for organizing Zealicon(Techno-Cultural Fest, JSS). Coordinated many technical and cultural events.

EXTRA-CURRICULAR ACTIVITIES

- **Technical.**
  - **ISIE hybrid vehicle challenge 2017-18.** Member of team Octavius. Won the title of best enurance, best acceleration, best cross pad & best electric HVC 2017-18. I built electronics module for automatic starting with RFID.
  - **GCET Hackathon 2017.** Won **1st place** among 30+ teams. Built a real time classroom feedback system using **computer vision** and **sentiment analysis**.
  - **Smart India Hackathon 2017.** Competed against 50,000+ students to participate in the finals of the worlds's biggest hackathon by Govt. of India. Built a real time surveillance system using **computer vision** for BARC.
  - **E-yantra 2015, 2016.** Participated in the the robotics competition organised by IIT-B & MHRD, India for two consecutive years. Developed automated robots to complete various tasks using **computer vision** and **embedded programming**.
  - Zealicon 2016. Won **2nd place** in MATLAB programming and fullstack website development events.

- **Sports**.
  - Participated and won in several inter-school and intra-school Basketball tournaments.