

Saksham Katiyar

I'm looking for an enthusiastic team to work for that will provide me with challenging work that I can learn from and contribute to.

EDUCATION

JSSATE, NOIDA

B.TECH IN ELECTRONICS AND
COMMUNICATION ENGINEERING
2015 - 2019 | AKTU
Agg. Percent: 66.28%

VSEC, KANPUR

INTERMEDIATE 10+2
2013 - 2015 | ISC
Agg. Percent: 93.75%

HIGH SCHOOL 10

2011 - 2013 | ICSE
Agg. Percent: 89.80%

LINKS

Phone: +91 8400 6780 75
Gmail:// saksham0katiyar
Github:// sakshamkatiyar
LinkedIn:// sakshamkatiyar

COURSEWORK

Data Structure & Algorithms
Control Systems
Digital Signal Processing
Advanced Electronics System
Microprocessor + Practicum
Digital Design using Verilog + Practicum
VLSI Design + Practicum

SKILLS

PROGRAMMING

Python • C • Embedded C • Java
Verilog • VHDL • \LaTeX • Assembly

TOOLS

ROS • OpenCV • AWS • MATLAB
Xilinx • VirtualBox • fritzing • Git

HARDWARE

Arduino • Raspberry Pi • ESP 8266
MSP430 • CC3200 • 8085 • 8051

RESPONSIBILITIES

- Technical Head Quanta, ECE Dept.
- Lab Coordinator, Embedded Systems & Robotics Lab

EXPERIENCE

LEAST COUNT — Computer Vision Intern

June 2018 – July 2018 | IIT-M Research Park, Chennai

- Work related to face recognition and manipulation.
- Created database on AWS, then implemented machine learning models to detect various features of face and quantifying them.
- All code was reviewed, perfected, and pushed to production.

ECED MNNIT — VLSI Design and Embedded Systems Trainee

June 2017 – July 2017 | MNNIT, Allahabad

- Synthesis and simulation of circuit designs on Xilinx ISE using Verilog. Worked on Mentor Graphics to design the layout of IC and implementation on FPGA Kit.
- Learned the basic concepts of embedded systems and to program in assembly language on 8051 microcontroller and then using Embedded C programming.
- Beside the mini projects, the major projects were realization of Wallace Tree Multiplier and Light to frequency converter on trainer kit.

PROJECTS

E-TOLL SYSTEM — Raspberry Pi, OpenCV, Python

May 2018 – June 2018 | Smart India Hackathon, Finalist

- An advanced toll collection system based on Computer Vision, where one RPi was used as a database server while other as a client.
- Matched the Number Plate with the QR Code and opened the barrier.
- Exceptions were suitably handled.

Link - <https://goo.gl/iDRZnY>

DRONE LOCALIZATION AND NAVIGATION — ROS, Python

October 2017 – March 2018 | e-Yantra IIT-B, Finalist

- A drone based project that involves automatic stabilization and localization of a quadcopter.
- I contributed in Python and ROS. Gazebo simulator was used prior to implementation.

Link - <https://goo.gl/b8FHdP>

CRATER AND OBSTACLE AVOIDING BOT — OpenCV, Python

October 2016 – March 2017 | e-Yantra IIT-B, Semi-Finalist

- I wrote the python script to read the feed from the overhead camera and detected the location of craters and obstacles through image processing.
- Then sent the location to Firebird V via ZigBee to traverse the arena and reach the final location.

Link - <https://goo.gl/ddYAg9>

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|---------------------------------|-----------------|
| • Optical Character Recognition | ML |
| • Hand Gesture controlled Bot | Arduino |
| • Maze Solving | Computer Vision |

ACHIEVEMENTS

- | | | | |
|------|---------------|----------------------|-------------------------------------|
| 2018 | National | Finalist | Kronothn 2.0 |
| 2017 | National | 4 th /202 | Team Leader e-Yantra, IIT-B by MHRD |
| 2017 | College | Hosted | Embedded Systems Workshop |
| 2016 | National | Semi-Finalist | Team Leader e-Yantra, IIT-B by MHRD |
| 2016 | International | Volunteer | International Cultural Team, WCF |