Saksham Katiyar

saksham0katiyar@gmail.com | +91 8400 6780 75

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

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

OTHER DETAILS

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

LANGUAGES
English - Proficient
Hindi - Native
Spanish - Beginner

EXPERIENCE

LEAST COUNT | Computer Vision Intern
June 2018 – July 2018 | IIT-M Research Park, Chennai
- Work related to face recognition and manipulation.
- Creating database on AWS, then implementing machine learning models to detect various features of face and quantifying them.
- All code was reviewed, perfected, and pushed to production.

SHELLIOS TECHNOLABS | Product Development Intern
Feb 2018 – March 2018 | JSS Step, Noida
- Deploying Cloud Services and managing distributed database on AWS.
- Created a backbone-like framework for the cloud data storage directly from ESP32.

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 IoT, where one RPi was used as a server maintaining database while other as a client. Number Plate was detected and matched to the database and toll was collected or exception was suitably handled.

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. It was developed using Python and ROS. Gazebo simulator was used prior to implementation

CRATER AND OBSTACLE AVOIDING BOT | OpenCV, Python
October 2016 – March 2017 | e-Yantra IIT-B, Semi-Finalist
This project shows how advance concepts of image processing can be used to process the image through a mounted camera and solve the problems related to traversing on unknown terrain with craters and other rocks while reaching the desired place.

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

ACHIEVEMENTS

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