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. I'd love to delve deeper in the field of coding and robotics.

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 • Java • C • Embedded C Verilog • VHDL • ETFX • Assembly

TOOLS

OpenCV • ROS • 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.

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.

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

Optical Character Recognition MLHand Gesture controlled Bot Arduino

Maze Solving Computer Vision

ACHIEVEMENTS

2018	National	Finalist	Kronothon 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