Résumé

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Github Link:
https://github.com/bhaskarsdose

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Objective:

I am a tech enthusiast and a problem solver guy, I always believe that perseverance beat talent, therefore, I always try, I wanted to build or create new technologies which can help the masses or my country. As I am always interested in the defence sector my aim is to make India reliant on its own defence equipment production and always wanted to mimic the life of Dr.APJ Abdul Kalam sir.

Education:

Degree	College/School	University	Passing Year	Passing Percentage/CGPA
B.Tech in EEE	ADGITM	I.P University Delhi	2016-2020	8.4
XII	K.V.N.F.C	Kendriya vidyalaya	2004-2016	89%
X	K.V.N.F.C	Kendriya vidyalaya	2004-2014	8.8

Projects:

1. Real-Time pollution monitor for air quality measurements

In this project I utilized the raspberry pi 3b+ as a local server to host a webpage as well as to connect various nodes through mosquitto channel on the other hand I have used nodemcu to interface with sensors like bme680,sharp dust sensor and mq135 to measure the data like temprature,pressure,humidity,AQI,NO2,SO2,CO2, PM10&2.5 and send it to the server to log the data as well as for live display.
Video link:- https://youtu.be/qMB781NHcqE
Project link:- https://github.com/bhaskarsdose/Air-Monitoring-System
https://github.com/bhaskarsdose/AWS-based-Air-quality-logger-/

2. Smart energy logger and meter

I am working in building a device which measures multiple parameters like current,voltage,frequency and temperature for various purposes like energy monitoring, battery health and to make some real-time observation of what is electricity consumption for the purpose of increasing efficiency and health of the whole systems like in factories there is lot of energy wasted due to nonavailability of smart measuring devices which collects the data by the help of which we can improve a lot of things.
Project Link:- https://github.com/bhaskarsdose/SMART_ENERGY_METER

3. Real-time heart rate and temperature monitor using IoT

This project is been selected at vihaan 2.0 hackathon of dtu Delhi In this project we used thingspeak API and created an app through MIT app inventor, On which we get the live data of heart rate and temperature sensor,After this the data go into the Thingspeak API where we used simple algorithms to build the graphs/plots and our next motive is to compare this data by prebuilt dataset which can help the patient in real life.
Project Link:- https://github.com/bhaskarsdose/micro-health-monitoring-system

4. Geyser feedback circuit

In this project, we used thyristor(negative coefficient one) to sense the temperature by the help of which the feedback circuit gets its input which in turn with the help of npn transistors turn ON and OFF the relay connected with it which finally cut off and on the main supply to the heating aliment,this project is simply a basic prototype for understanding the working of various electronic components and their switching.

5. Smart Socket

This my internship project or mine first IoT based project from which I learnt PCB designing, relay control circuit, nodemcu interfacing and connecting it to the internet or locally using bluetooth hc-05 to give its command for turning on and off the appliances connected with the socket , Along with that I also integrated this with the **IFTTT** template to turn on and off the relay using the google voice assistent as it generates the instance which goes to the cloud which send the command to the applet.
Project Link:- https://github.com/bhaskarsdose/IOT-enabled-socket

6. Smart water monitoring and management system

This project basically work as an automatic control system for the water pumps in this we used two nodemcu which communicate with each other to turn ON and OFF the motor , one nodemcu is connected at the water tank with ultrasonic sensor which measures the water level and other with the relay to disconnect or connect the supply with the motor.

7. Mini quadcopter

I am currently working on this project using eachine flight controller using this we can do a certain task easily which we can define later.
Link:- https://drive.google.com/file/d/1tPTBw8y6eKShXya8BZ4sjXn9a4iqKP7c/view?usp=drivesdk

Trainings & Internships:

- Done training on plc and scada.
- Intern at W3Dev (a startup by IIITD student) as an IOT(Internet of things) Developer for 2 months from June 2018 to August 2018.
- working as hardware developer (iot) in algo8 under the name of power8 for the last 4 months.

Research Publications:

1. Written research paper on ***"Automation in factories using Internet of Things(IoT)"*** published in the IETET journal PAPER ID #A17.

Technical Skills:

- Have relevant knowledge of INDUSTRIAL AUTOMATION like controllers for DG's.
- Languages knew C++,Python,C.
- PCB Designing.
- Internet Of Things(IoT) — "MAJOR SKILL".
- Have good experience in EMBEDDED SYSTEM Design.
- Microcontroller used - ARDUINO, NODEMCU ESP-12e, EACHINE FC, ESP8266.
- socket programming and API integration for IoT applications like for real world deployment.
- Cloud computing.
- Cloud used - thingspeak,google firebase,aws(dynamoDB) etc.
- Hardware system developer.
- worked on Augmented reality using openCV and openGL.
- Microprocessor used - Raspberry pi 3b+ and pi zero.
- worked on plc and scada.
- Technical writing.
- Blender objects designing.

Soft Skills:

1. Workaholic,always try to complete the work given ASAP.
2. Ability to accept failures as I know there are no failures only learning.
3. Good time management.
4. Team management skills.
5. leadership capability.
6. Public speaking.
7. Good communication skills.