RAHUL MAURYA

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SUMMARY

As an E&C Engineer, hand on experienced in (Hardware Design (E.V. Chargers), BMS, PCB Design moreover Mobile E-Components Analysis (LCM, Camera). Aiming to apply expertise in electronics, signal processing, communication, and biomedical engineering.

WORK EXPERIENCE

EAPRO GLOBAL LTD, Roorkee, Uttarakhand
  Hardware Engineer   *Mar 2025-May 2025*
- Design PCB Layout, Hardware Design and Testing as project on Li-ion 4- Cells BMS.
- BMS IC (BQ40Z50), Microcontroller (MSPM0C1104)

vivo Mobile India Pvt. Ltd., Gr. Noida, UP   *Sep 2024 - Feb 2025*
  Process Electronic Engineer
- Analysis of various Mobile Components: LCM, Camera, MIC, Receiver Etc. & control Defect timely.
- M-Board/N-Board Hardware Analysis at Micro Level & Troubleshooting,

OGOENERGY India Pvt. Ltd., Noida, UP   *Feb 2024 - Sep 2024*
  Research & Development Engineer , *Apprenticeship*
- Involved in the **EV Charger (1.2kW)** for 3W **and PCB Design P**roject.
- **Skills Acquired**: **Schematic Capture**, E-Component Selection, SMT Packages, Operating **DSO**, **Converter Design (DC-DC, AC-DC),** Flyback, SMPS, **Gate Driver ICs, Power Mos FET, LLC Controller.**
- Designing **PCB Layout , Footprint Design and BOM** Creation.
- Active in Troubleshooting, **Power E-Circuit Design**, and Testing (Li-ion Battery), BMS.

Enerjazz Tech (YS21), Delhi, India   *Nov 2023-Jan 2024*
  Power Electronics Engineer , *Internship*
- Led testing of Li-ion battery packs, telematics (GPS, GPRS), GUI, UART, and CAN protocols.

PROJECT & PUBLICATIONS EXPERIENCE

IoT-Based Asset Tracking Device with SIM808 for Geolocation and GSM Connectivity. *Feb 2025-May 2025*
- Schematic Capture, PCB layout, STM32, SIM808.

Developed an AGV using IR sensing technology with Arduino.
                                             Feb 2024-March 2024

Molecular Communication via Diffusion AF Relay in the presence of GGD Noise.(*SCI Journal*)
- Research proposes Generalized Gaussian Distribution (GGD), as generic noise model for MC system.
- Proposed GGD noise for performance analysis of MC systems under AF relay.   *Feb 2024-June 2024*

Statistical Model for Bacterial Propagation in Human Respiratory Tract. (*IEEE-Conf.*)
- Analyzing the effectiveness of Bacteria in Human Respiratory Tract (HRT) including Binding & Non-binding rate over Cylindrical Biological Deployment shape considered.   *Oct 2023-Jun 2024*

DMC Approach for Bacterial Propagation over Spherical Biological Deployment.(*ISFT-Conf*)
- Analyzing the bacteria reception at the end of Rx (Lung & Kidney). Considering the SBD is in this research representing 3D shape of Rx.

EDUCATION

Galgotias College of Engineering & Technology, Gr. Noida, India   *2020-2024*

B. Tech. , Electronics and Communication Engg.
SGPA: 7.3/10

Government Inter College, Ayodhya , UP, India
XII, Mathematics, Science   *2017-2018*
  Marks: 76%

X, Mathematics, Science   *2015-2016*
  Marks: 80%

SKILLS

Programming skills: Basic C, Embedded
Software/Tools: Ki-CAD/Altium, LtSpice, Draw.io, MATLAB, MAPLE 18, MS Office
Protocols: UART, I2C, SPI

ADDITIONAL INFORMATION
- "INUPi2i" certificate in Nano fabrication from IIT Delhi
- Trained in AGV & Drone Technology
- Team Leader for Expo Guest Management