AKASH AGARWAL

akashagarwal156@gmail.com | 9695535786
www.linkedin.com/in/akashagarwal04

EDUCATION

INSTITUTE OF ENGINEERING AND TECHNOLOGY
B.TECH in Electronics and communication
CGPA 7.38/10
2017 - 2021

LUCKNOW PUBLIC SCHOOL
CBSE (CLASS XII)
2016

AVADH COLLEGIATE
CBSE (CLASS X)
2014

SKILLS

Programming Languages:
- C/C++ • Python
- Linux • Docker
- MQTT

Development Tools:
- Arduino IDE
- MATLAB
- Altium Designer
- TinkerCAD

Hardware:
- Arduino
- Raspberry pi
- ESP32
- Nvidia Orin
- Relays
- RFID Readers

Protocols:
- UART • SPI
- I2C • RS232
- RS485 Modbus
- TCP-IP

PROJECTS

- Earth Rover Using Raspberry Pi and OpenCV
Sep 2020 - Apr 2021
- FPV Drone
Jan 2020 - Mar 2020
- Health Monitoring System
Sep 2018 - Dec 2018

EXPERIENCE

PARKSMART TECHNOLOGIES PVT | IOT Developer
Sep 2023 – Current | Noida, India
- Designed, developed, and deployed Raspberry Pi and Nvidia Jetson Nano-based controllers at client sites, seamlessly integrating them with tailored services to enhance operational efficiency.
- Successfully integrated UHF reader and Camera services using TCP-IP protocols and RTPS stream service, optimizing data communication and enhancing surveillance capabilities.
- Spearheaded Python code development, Docker containerization, and POS machine integration for a smart parking system, enhancing functionality and user experience.

NATION INNOVATION | Embedded System Trainer
Aug 2023 – Current | Part-Time
- Designed and conducted engaging training modules, fostering embedded system expertise.
- Guided learners through practical projects, enhancing embedded system proficiency.

WIPRO TECHNOLOGIES | Project Engineer
Aug 2021 – May 2023 | Bangalore, India
- Designed and developed projects for clients, demonstrating proficiency with advanced hardware platforms like Nvidia Orin and ESP32 boards, showcasing technical expertise and innovation.
- Actively collaborated with cross-functional engineering teams to identify and rectify critical software bugs, ensuring the delivery of a more stable and dependable product.
- Constructed an extensive knowledge foundation encompassing Google Cloud and OS build, utilizing a variety of refined processes and methodologies.

SAFE STEP | Embedded Intern
Oct 2020 – Mar 2021 | Noida, India
- Collaborated with the engineering team to develop and test embedded firmware for the Smart attendance system, ensuring adherence to project timelines.
- Developed proficiency in implementing IoT solutions and gained hands-on experience with hardware components and platforms.
- Assisted in hardware design and prototyping for a new product, successfully integrating sensors and microcontrollers on the PCB.

POSITION OF RESPONSIBILITY

HEAD COORDINATOR & TEAM LEAD | Electronics Club
Feb 2019 – Jun 2020
- Led and managed a ten-member team as the organizing head, overseeing meticulous planning and execution of club events and activities.
- Spearheaded the introduction of innovative inter-departmental competitions, activities, and programs, significantly boosting student engagement and participation.
- Orchestrated a highly successful one-week workshop on "Internet of Things" (IoT), imparting valuable insights into Industry 4.0 technology trends and fostering students' understanding of IoT applications.