

B H A S K E R S H A R M A

E m b e d d e d S o f t w a r e D e v e l o p e r

Rorkee, Uttarakhand • +91 8427182071 • bhaskersharma13@gmail.com • [linkedin](#) • [Github](#)

S K I L L S

- **Python** – Data handling in Python, integrating it into the IOT
 - **API** – Development, and testing of API for data handling like Fast Api, and Flask Api in Python.
 - **Linux** – Familiar with Linux UBUNTU - JAMMY for the development process of embedded systems.
 - **Microcontrollers** – Working on IOT devices like Orange Pi, Raspberry Pi, Pic24 in a development context.
 - **ROS2** – ROS Working with designing and simulation with Gazebo.
 - **C++** – basic of C++ as used in Arduino IDE integrating to IOT devices like Arduino, ESP32, ESP8266
 - **Designing** – logo making / UI designing with Figma / PCB Designing
 - **RTOS**:- Handling Real Time Data in projects that handle 100 Data strings/minute.
 - **React JS**- front end web development
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E X P E R I E N C E

Sensor Mart, Rorkee • Embedded Software engineer (07/2024) – Present

- Developed backend software for microprocessors, improving data processing speed by 30%
- Integrated software with sensors using Raspberry Pi and Orange Pi, enhancing accuracy by 20%
- Utilized Python and Linux, reducing development time by 25%

Wipro Pari, Pune • Control Software Intern (01/2024) - (06/2024)

- Contributed to the development of software for automation.
- Integrated software with robots and PLCs, reducing system downtime by 10%
- Collaborated with a team of 5 engineers, delivering projects 2 weeks ahead of schedule

Sukrit Machine Tools, Jalandhar • R&D engineer (03/2023) - (07/2023)

- Developed IoT systems for electric press brake machines, reducing manual intervention by 40%
 - Designed and developed PCBs for real-time machine data readings, increasing accuracy by 25%
 - Implemented software solutions using microcontrollers (ESP32, Arduino, Raspberry Pi), decreasing error rates by 15%
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E D U C A T I O N

• **B Tech in Robotics And Automation (7.35 CGPA)** (07/2020) - (07/2024)

GNA University [Phagwara, Punjab]

• **12th Grade (70.8% CBSE, Non-med)** (04/2018) - (04/2020)

Nand Singh Memorial School [Terkiana, Punjab]

• **10th Grade (76.3% ICSE Board)** (Batch: 2017-2018)

CERTIFICATES

AI With Microsoft Azure [Honeywell Student Empowerment Program]

(08/2023)

100-hour AI course leveraged Microsoft Azure where I Achieved command of the cloud services and deployed projects like language detection and translation, and passed the certificate with Grade B.

Collaborative Bots [Sam Automation Technologies]

(07/2022)

Robotic Training, Where we focused on the Cobot's Operations and Achieved good command over the Cobot's Jogging, Teach pendant Coding at the end of training and performed some pick-place operations with the Cobot.

PROJECTS

Real-time data handling [Python, Fast-API, Linux, Arduino]

(07/2024)

Developed a Python-based system to handle continuous sensor data, Converted data to .csv files, uploaded to an FTP server and Sent data to a web app for real-time graph plotting.

Wearable Robot [python, Android studio, Linux]

(01/2024)

Developed interactive AI model with Python then integrated it with the embedded system (Orange pi) till now Achieved success for controlling the Windows system with voice commands and for App in Kotlin.

RC Car [C++, ESP32, PCB Designing]

(06/2021)

Developed IOT Based RC car using Nodemcu enabling Wireless control via mobile app using wifi modules and Achieved 7th Rank in Technoxian World Robotics Championship Tournament.
