Himank Sharma

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Professional Summary

IoT and Embedded Systems specialist with expertise in hardware programming, PCB design, and home automation. Computer Science student with proven experience developing innovative robotics and smart home solutions. Co-founder of a technology startup with strong leadership skills and a record of award-winning technical projects.

Technical Skills

- Internet of Things
- Embedded Systems
- ESP32, Arduino, RaspberryPi
- Arduino IDE
- VSCode
- EasyEDA
- Fusion 360
- Hardware Programming
- PCB Design
- Home Automation
- Logic Programming
- Python
- Embedded C/C++
- FreeRTOS
- MySQL
- 3D Modeling
- BLE/WiFi/UART/I2C/SPI
- Firebase

Professional Experience

NKSpair: Next-Gen Kinetic SmartPair Dec 2023 - Feb 2025
Co-Founder and Chief Technology Officer *Jaipur, Rajasthan*

- Led a team of 3 members to deliver IoT-based home automation solutions, deployed in 10+ homes.
- Designed microcontroller-based systems with cloud integration, improving device reliability by 25%.
- Developed product architecture focusing on IoT connectivity and I2C communication protocols.
- Created 3 unique PCB layouts and embedded firmware for commercial smart home devices.
- Optimized hardware-software integration, reducing deployment time by 15%.

Certification

Introduction To Internet Of Things Jan 2025 - Apr 2025
National Programme on Technology Enhanced Learning *83% (Elite + Silver)*

- **Link :** https://internalapp.nptel.ac.in/noc/Ecertificate/?q=NPTEL25CS44S34740199104357346

Awards & Achievements

- Best Project of the Year Award - Poornima College of Engineering (2023)
- 1st Place, Tech Fest (Aadhar) - Poornima College of Engineering (2023)
- 1st Place, IEEE International Conference on Recent Advances in Engineering (2023)
- Smart India Hackathon Nominee - Poornima College of Engineering (2023)
- 1st Place, Tech-Connect Exhibition Expo - SKIT (2024)
- 3rd Place, Project Expo and Startup Expo - SKIT (2024)
- 3rd Position in Startup Expo-2024 (SKIT, 2024)

Technical Projects

SmartLink: Advanced Home Automation System
Aug 2022

- Built an IoT-based automation system enabling remote control for 30+ appliances.
- Implemented real-time automation, cloud connectivity, and intelligent control, reducing energy use by 10%.
- Developed 2 PCB layouts and integrated system with Firebase for data management.
- **Technologies:** IoT, PCB Design, Firebase, MQTT, Electronics, Home Automation
- **Project Link :** https://www.linkedin.com/posts/himank-sharma-285339247

Medical Companion Robot
Feb 2023

- Built an AI-powered healthcare robot piloted in 5 clinics, automating 3 medical tasks.
- Integrated advanced sensors and communication protocols for continuous monitoring.
- Enabled 24/7 healthcare companion features, improving patient satisfaction by 30%.
- **Technologies:** IoT, Robotics, MQTT, I2C, Healthcare Sensors, WiFi
- **Project Link :** https://www.linkedin.com/posts/himank-sharma-285339247

Sophia: Windows Virtual Assistant
Oct 2022

- Developed a Python-based assistant with MySQL integration, processing 100+ queries/month.
- Implemented speech recognition, text-to-speech, and API automation.
- Improved efficiency by 15% through optimized database queries.
- **Technologies:** Python, Speech Recognition, Text-to-Speech, APIs, MySQL
- **Project Link :** https://github.com/HimankSharma1/Sophi-The-Virtual-Assistant

Publications & Patents

Examination of AI-based Virtual Doctor Robot Fabricated
Apr 24, 2024
Web Of Science
Co-Author

- **Link :** www.webofscience.com/wos/woscc/full-record/WOS:001460147300006

Examination of AI-based Virtual Doctor Robot Fabricated
Nov 07, 2024
Journal of Polymer and Composites - STM Journals
Co-Author

- **Link :** journals.stmjournals.com/article/article=2024/view=187813/

Artificial Intelligence Based Virtual Doctor Robot
May 03, 2024
Indian Patent Journal - Application No. 202311088825
Inventor

- Filed patent for a mobile healthcare robot integrating AI, robotics, and medical technology.
- Developed system for disease detection, medication dispensing, and medical inspections.

Education

Poornima College of Engineering
Aug 2022 - Present
B.Tech. in Computer Science and Engineering
Jaipur, Rajasthan

St. Wilfred's School
May 2022
12th Grade, CBSE – 82.60%
Jaipur, Rajasthan

Yugantar International School
May 2020
10th Grade, CBSE – 77.40%
Jaipur, Rajasthan