

SHRIVARDHAN SHARMA

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SUMMARY

Electronics and Communication B.Tech student with skills in robotics, innovation, and project development. Successfully led the development of 5+ major projects, incorporating 3D printing, hardware programming with ICs, and microcontroller-based systems. Proficient in Python and Embedded Programming, with a proven track record of mentoring 50+ underprivileged students, resulting in their participation and success in reputable competitions. Recognized for leadership skills and a commitment to leveraging technology for positive impact, I am eager to contribute to cutting-edge projects in the robotics industry & STEM Education

WORK EXPERIENCE

Intern - Signal & Transmission Department

Jaipur Metro and Rail Corporation (JMRC) | Internship | 11/2024- 01/2025 | Offline

- Gained hands-on experience with Automatic Fare Collection (AFC) Machines, understanding their operation and integration in the metro system.
- Explored the JMRC Database, learning about data management, passenger analytics, and real-time monitoring of metro operations.

Technical Manager - STEM Kits

Hyaku Innovative Technologies Pvt. Ltd. | Contract | 11/2023- 07/2024 | Hybrid

- Led the development of over 25+ STEM courses and educational kits for 15+ Institutes. These courses were customized to meet varying academic levels, ensuring a 95% student satisfaction rate.
- Directed a team of 10+ developers to launch TechHyaku, an educational. The app features over 50 interactive STEM modules and has a user satisfaction rating of 4.2/5.

STEM Education Mentor

Dr. Ambedkar Lab Foundation (NGO) | Voluntary | 03/2023- 06/2024 | Hybrid

- Coordinated & Trained over 1,500+ rural children's in modern innovation techniques with STEM education kits across villages, ensuring access to hands-on learning tools and with a focus on practical applications of topics.
- Mentored 50+ students who participated in national and international competitions, with 10 teams winning awards and recognition.

EDUCATION

B.Tech - Electronics & Communication

Vellore Institute of Technology, Bhopal | 2022 - 2026

- Strong foundation in designing, simulating, and analyzing analog and digital circuits, gained through extensive coursework and practical experience, using tools such as SPICE and MATLAB.
- Solid understanding of microcontrollers and embedded systems, with hands-on experience in programming (C/C++, Assembly) and integrating hardware with software for real-world applications.
- Proficient in printed circuit board (PCB) layout and design, with experience using software like Eagle, KiCad, complemented by an understanding of PCB fabrication processes.

High Schooling (11th & 12th) - Physics, Chemistry, Maths with Information Technology

Bharatiya Vidya Bhavan Vidyashram Jaipur | 2020 - 2022

- Gained a strong foundation in core technical subjects including Physics, Chemistry, and Mathematics, which enhanced problem-solving and analytical skills crucial for engineering and technology fields.
- Developed a solid understanding of Information Technology concepts, programming basics, and data structures, laying the groundwork for future studies in computer science and electronics.
- Led a team for the IEEE YESIST-12 Junior Scientist competition at Stanford University, showcasing leadership, innovation, and collaborative skills in designing and presenting a cutting-edge scientific project.

Diploma - Embedded Systems & Robotics

Hyaku Innovative Technologies Pvt. Ltd. | 2019 - 2020

- Developed innovative environmental projects using Arduino, applying embedded systems principles to create impactful solutions that engaged and inspired diverse audiences.
- Mastered hardware and software integration in embedded systems, designing and implementing sophisticated technological solutions that showcased advanced problem-solving abilities.
- Specialized in robotics, with a focus on leveraging automation and intelligent systems to tackle real-world challenges, demonstrating a strong commitment to innovation.

PROJECTS

TechHyaku: Ultimate App for STEM Education

Hyaku Innovative Technologies Pvt. Ltd. | 02/2024 - 05/2024

- Spearheaded the development of 50+ interactive and innovative course modules, significantly enhancing the learning experience for students across 10 different subjects.
- These modules contributed to a 20% improvement in student engagement and retention rates.

Agriculture Monitoring System using OpenCV

Hyaku Innovative Technologies Pvt. Ltd. | 06/2023 - 08/2023

- Implemented real-time monitoring and app control, integrating OpenCV for advanced image processing to optimize farming operations.
- This allowed for precise control and increased crop yield by 25% through accurate detection and timely interventions.

CERTIFICATIONS AND ACTIVITIES

Certifications:-

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|---|---|
| • PCB Design Training at SIITA-Delhi | • 7-day Workshop on PLC, Poornima University |
| • Bits & Bytes of Computer Networking, Coursera | • 45 days Embedded System Training at MG Techno |
| • Electro-Craft with VITronix - VIT Bhopal | • 90 days Embedded system training at Priganik |

Activities:-

President of VITronix Club, VIT Bhopal (2024-25 Academic Year):-

- Led a team of 70 members in organizing 5+ workshops and technical events, which attracted over 500 participants from various engineering disciplines.
- Successfully increased club membership by 25% and enhanced the visibility of the club within the university.

Technical Team Representative of IEEE Student Branch, VIT Bhopal (2024-25 Academic Year):-

- Coordinated and managed 5 major technical projects involving 10+ students, fostering collaboration and innovation.
- Played a key role in organizing 3 webinars that reached an audience of over 1,000 students.