

KRISHNARATHWA

MALE, 20

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EDUCATION

| | | | | |
|-----------------------------|---------|--------------------------------|-------|----|
| BTech in Electronics & Com. | 2022-26 | VIT BHOPAL UNIVERSITY | 85.4% | 20 |
| AISSCE/CBSE (Class XII) | 2022 | New era Public, Indore | 77.8% | 5 |
| AISCE/CBSE (Class X) | 2020 | Sandipani Vidhya Vihar, Indore | 76.8% | 4 |

INTERNSHIP/S

Electronic Engineer Intern, Dr. Ambedkar Lab Foundation NGO, Jaipur NOV 2024 - DEC 2024 Dr. Ambedkar Lab Foundation NGO - It is a **non-profit organization dedicated to providing free robotics, coding, and STEM education** to underprivileged students.

- **Developed** and prototyped **3+** new **Embedded Systems** and **IoT products**, providing a hands-on learning experience for underprivileged students.
- **Mentored** a cohort of **25+** students in **robotics, coding, and STEM education**, guiding them through the entire product development lifecycle from ideation to final prototype.
- **Optimized** and **troubleshoot** existing **Embedded Systems**, successfully reducing system errors by **15%** through improved **hardware and software integration**.
- **Managed** all project resources and timelines, ensuring the on-time completion of **5** educational projects and gaining valuable **project management** experience.

Professional Recognition

- Received Certificate from Dr. Ambedkar Lab Foundation NGO.

ACADEMIC PROJECTS

- **Gas Level Monitoring System | Hardware Project | Project Exhibition - 01, VIT Bhopal** - Developed a gas level monitoring system utilizing the MQ-02 sensor and Raspberry Pi Pico for real-time gas detection. **Engineered** a **cloud-based data visualization** dashboard to enable remote monitoring and instant safety alerts, reducing response time by **70%**. **Integrated** hardware and software components, successfully achieving a **98% detection accuracy** for hazardous gas levels and providing preventative alerts.
- **Designing Sensors through HEMET using Cadence | Project Exhibition - 02, VIT Bhopal** - Designed and simulated sensors using HEMET technology in Cadence. Focused on optimizing sensor performance for precise detection and efficiency, applying semiconductor design principles and advanced modeling techniques. **Reduced** power consumption by **15%** and improved detection accuracy by **20%** through iterative design optimizations and simulations.

ACADEMIC ACHIEVEMENTS AND AWARDS

- Managed National Symposium on Innovations in Intelligent Systems Vit Bhopal.

POSITIONS OF RESPONSIBILITY

- As **Event Management Head, VITronix Club VIT Bhopal** - Sparking Innovation in Electronics.
- Engaged in hands-on electronics and robotics projects, enhancing technical skills in circuit design and automation.
- Promoted from core member to Event Management Head for strong leadership in managing events.
- **Core Member, IEEE Chapter VIT Bhopal University** -
- Managed and promoted events through digital platforms, increasing outreach and engagement.
- Actively contributed to technical events, workshops, and knowledge-sharing sessions.

EXTRA -CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Runner-up Aavahan Kabbadi Tournament Vit Bhopal University, year (2023).
- Core Member of Cricket Club sports team for VIT Bhopal University & won gold medal in Inter-College Cricket Tournament (adVITya'24), year 2024.