KISHAN SHARMA

Electronics and Communication Engineering Student

Gmail | (+91) 8799065755 | Linkedin | Portfolio | Github | Google Scholar

TECHNICAL SKILLS

- **Languages:** C, C++, Python, Verilog, Ladder Logic etc.
- **Tools:** Altium 365, Fusion 360, Easyeda Pro, Matlab, Ansys, PX4 and Power BI etc.
- **Microcontrollers:** ESP-32, Arduino UNO, LPC2148 (ARM7TDMI, 32-bit) and MSP430G2553 LaunchPad etc.
- **Protocols:** I2C, SPI, UART, CAN and HART etc.

EDUCATION

Education	University/Board	Institute	Year	CGPA
Graduation	GTU	GEC Bharuch	2022-26	7.98
HSC	Gujarat Board	BHS Bagikhana	2020-22	5.00
SSC	Gujarat Board	BHS Danteshwar	2018-20	7.12

INTERNSHIPS AND PROJECTS

Smart Waste Mangement Project using IOT *September 1, 2025 – September 30, 2025*
- Designed and implemented an automated waste management prototype using Arduino to classify and sort refuse into "Wet" and "Dry" compartments.
- The system integrates an Ultrasonic sensor to detect incoming waste and triggers a Servo-powered mechanical platform to direct the material into the correct bin.
- This project offers a hands-free, sustainable solution to improve recycling efficiency and reduce manual labor in waste segregation.Which give notification on mobile.

Virtual Internship By IEEE RAS Hyderabad *July 1, 2025 – July 15, 2025*
- Completed a 3-week virtual internship on Embedded Systems, IoT and PCB Designing, organized by IIIRPD (Institute for Industrial Interdisciplinary Research and Product Development), Hyderabad. The program was technically co-sponsored by the IEEE Robotics and Automation Society and the IEEE Communication Society, Hyderabad Section Chapters.
- Completed a 3-week Embedded systems, IoT and PCB Designing internship with the IEEE Robotics and Automation Society, gaining key hardware-software integration skills.link

RF Microtech Electronics *July 1, 2025 – July 15, 2025*
- The intership involved hands-on training and development in the field of firmware engineering, focusing on electronics components, circuit design, and microcontroller programming using the Arduino Arduino platform.
- The internship enabled a deeper understanding of hardware-software integration essential in embedded systems.link

Blockchain Internship at Center of Excellence, GTU Chandkheda *April 28, 2025 - May 23, 2025*
- Developed a blockchain-based project titled Creda - Driver Recognition Passport, which allows users to verify a driver's identity and credibility through comprehensive historical data, including accident records and other relevant information.
- Utilized Ganache for local blockchain development.
- Integrated MetaMask for wallet and transaction management.
- Wrote smart contracts using Solidity.link

Smart Parking project using RFID module *April 1, 2025 – May 30, 2025*
- Developed an DE project name Smart parking using RFDI module. It has Arduinio and RFID RC522 to streamline vehicle entry/exit.
- Integrated a Servo-actuated barrier and I2C LCD for real-time authentication and user feedback. Optimized C++ firmware for secure UID tag verification and hardware synchronization, successfully reducing manual oversight and improving parking efficiency.

Webpage Dev. using Prompt Engineering by IBM Winter Certification Program *Dec 16, 2024 - Dec 23, 2024*
- Developed a web page as part of IBM's 2-week Winter Certification Program using prompt engineering techniques. The project focused on designing a promotional website for the fictional perfume brand Aresion. Github: IBM Project
- Utilized tools such as IBM Watson AI (free access to a $500 enterprise tool), Google Gemini, and ChatGPT.
- Applied prompt engineering strategies taught during the course for complete web page creation.

ACADEMIC ACTIVITIES

- **Qiskit Fall Fest 2025 IBM Quantum:** Awarded a Certificate of Participation from IBM Quantum for successfully completing the official Qiskit Fall Fest 2025 event. The certificate was signed by the Vice President of Quantum Algorithms and Scientific Partnerships.link

- **Participant in RTL Design and Verification Workshop, The Silicon Sandbox:** Completed a 5-day hands-on workshop covering Verilog, SystemVerilog, and UVM methodologies for digital design and verification.link

- **Participant in SemiX AIPC Program, IIT Bombay:** Participated in the SemiX AIPC initiative organized by the Centre for Semiconductor Technologies, IIT Bombay, gaining insights into semiconductor innovation and industry practices.link

- **Certification in Google AI Essentials:** Successfully completed "Google AI Essentials," an online non-credit course authorized by Google and offered through Coursera.link

- **Participanted in HackOut'25, DA-IICT Gandhinagar:** Participated in HackOut'25, hackathon organisez by the Nirma university at Gandhinagar.link

- **Participated in Botgenesis by Nirma University:** Participated in "Botgenesis" workshop, this workshop was part of TechnOdyssey 2025, organized by the IEEE Student Branch at Nirma University.link

- **Attended RF Circuits and High Frequency Antenna Design Workshop at PDEU:** Gained practical exposure to RF circuit design, simulation, and high-frequency antenna techniques through a three-day IEEE workshop at PDEU, Gandhinagar (Aug 2025). link

- **Attended SENSEIOT-2025 International Workshop on Indigenous IoT Sensors & Actuators by C-DAC:** Attended SENSEJOT-2025 International Workshop on Indigenous Sensors and Actuators Development for IoT Ecosystem organized by C-DAC. link

- **Certification in "Drones and Drone Data Processing" by COE:** Successfully completed the online course in "Drones and Drone Data Processing" from the Centre of Excellence in Land Administration and Management (Govt. of India/Govt. of Karnataka initiative) on 25 August 2025.link

- **Atteneded Fundamentals of Deep Learning certification at PDEU:** Completed Fundamentals of Deep Learning at PDEU (18th July 2025), gaining skills in training CNNs, leveraging pre-trained models, LLMs, and transfer learning for object classification. link

- **Completed Online Foundation Course in IoT Testing by Reliance Academy:** Completed a foundational course in Internet of Things (IoT) focusing on testing, security, and product engineering. Gained practical knowledge of IoT systems, privacy protocols, development tools, and computing platforms.link

- **Attended Two Days Workshop on AI in Healthcare by Amity University:** Hands-on workshop on Artificial Intelligence in Healthcare, covering AI architectures, medical imaging, and biomarker data analysis.link

- **Completed Brain Computer Interfaces Workshops at PDEU:** Attended Brain-Computer Interface (BCI) Workshops held at PDEU on March 28 to 29 March, 2025, organized by IEEE SPS PDEU SBC, IEEE PDEU WIE SBAG, IEEE PDEU SB, and IEEE SPS GS, in collaboration with NFSU Gandhinagar, Ahmedabad University, and MathWorks. link

- **Attended Data Science & AI Workshop, Ahmedabad University:** Completed a one-day workshop on AI and Data Science on 19 April 2025, organized by the School of Engineering and Applied Science. link

- **Active Member of IEEE and IEEE Signal Processing Society:** Active Member of IEEE and the IEEE Signal Processing Society since April 2025. link and link

- **EYGDS Online Internship by Next Gen Employability Program:** This internship was conducted under the Next Gen Employability. link.

- **Completed IBM Skill Build Winter Certification Program:** Earned Certificate in the IBM SkillBuild Winter Certification Program with CSRBOX on Prompt Engineering, held from December 16 to December 30, 2024.link

POSITIONS OF RESPONSIBILITY

- **Played a role as the Championing Member, Techfest Trivani, LD College of Engineering:** Facilitated 3,000 worth of registrations from Government Engineering College, Bharuch, for technical and non-technical events at the Bharuch region.