

# Curriculum Vitae – Ritesh Kumar Verma

## RITESH KUMAR VERMA

### Bachelor of Technology (Electronics & Communication Engineering) – 2024

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LinkedIn: <https://www.linkedin.com/in/ritesh-kumar-83531b277>

Project Portfolio (Facebook): <https://www.facebook.com/share/1JMm75a9zK/>

## CAREER OBJECTIVE

Motivated Electronics and Communication Engineering graduate seeking a challenging role to apply my skills in embedded systems, robotics, and IoT solutions, contributing to innovation, design excellence, and sustainable technology development.

## ACADEMIC QUALIFICATIONS

### Bachelor of Technology (B.Tech) – Electronics & Communication Engineering

Dr. A.P.J. Abdul Kalam Technical University (AKTU), Uttar Pradesh

Goel Institute of Technology and Management, Lucknow

Year of Completion: 2024

CGPA: 7.26 / 10 (Equivalent to 70%)

### Diploma in Electronics Engineering

Board of Technical Education (BTE), Uttar Pradesh

Mahamaya Polytechnic of Information Technology, Gorakhpur

Year of Completion: 2021

Percentage: 83% First With Honours

## WORK EXPERIENCE

### STEM-Robotics Trainer Engineer

LSCL Robotics Pvt. Ltd., Bangalore

Location: Montfort Inter College, Lucknow

Duration: 03 April 2024 – Present (2026)

Delivered structured, hands-on training in robotics and electronics during a Summer Camp at La Martiniere College, Lucknow, focusing on practical implementation and student skill development.

Demonstrated real-world applications of sensors, microcontrollers, and basic automation concepts through guided projects.

- Designed, assembled, and maintained robotic kits and lab equipment.
- Guided students in building and programming robots for competitions and projects.

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## TECHNICAL SKILLS

### Hardware & Electronics

- **Soldering Skills:** Through-hole and basic SMD soldering/desoldering, PCB assembly, inspection, and continuity testing.
- Strong knowledge of **mobile phone, laptop, and general electronic device repair**, including fault diagnosis and component-level troubleshooting.
- Good knowledge of **hardware repair, replacement, and maintenance** of electronic circuits, connectors, displays, power sections, and peripherals.

### Robotics Platforms

- **LEGO Mindstorms NXT:** Autonomous robot design and programming using NXT software; **line following, obstacle avoidance, and sensor-based logic** using touch, light, sound, and ultrasonic sensors.

### Embedded Systems & IoT

- **Microcontrollers:** ESP32, Arduino Uno & Mega2560
- Embedded C/C++ programming using Arduino IDE.
- Sensor interfacing, motor control, wireless modules, debugging, and optimization.

### 3D Printing & Prototyping

- FDM 3D printer operation and maintenance.
- **Basic CAD design using Tinkercad; slicing, calibration, troubleshooting, and post-processing.**
- **Skilled in 3D printer assembly, repair, and maintenance**, including mechanical alignment and basic electronics troubleshooting

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## SOFTWARE TRAININGS & CERTIFICATIONS

- **U.P. Power Corporation Ltd.** (220/132/33 KV Sub-Station, Gidahi, Basti, UP)  
*Duration:* 31 July 2023 – 30 August 2023  
*Key Skills:* **Instrumentation systems, distribution transformers, circuit breakers, relays, control panels.**
  - **ISRO – Department of Space (Online Training)**  
*Duration:* 20 July 2023 – 07 August 2023  
*Key Skills:* **Orbital mechanics, space instrumentation, space research methods, remote sensing, space technology.**
  - **Teknavigator Staffing Pvt. Ltd., Lucknow** (Embedded Systems)  
*Duration:* 20 January 2021 – 18 February 2021  
*Key Skills:* **Embedded systems, IoT, Arduino, 8051 microcontroller, Embedded C programming.**
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## PROJECT EXPERIENCE

- Designed, built, and programmed 100+ robotics and embedded system projects for educational and practical applications.
  - Developed autonomous and smart robots including line follower, obstacle avoidance, maze solving, wall following, pick-and-place, and robotic arm systems.
  - Implemented Bluetooth, RF, Wi-Fi, IoT, gesture & voice control, along with smart solutions such as gas detection, automatic doors, solar-powered and parking systems.
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## ADDITIONAL TECHNICAL SKILLS

- **Applications:** NXT Programming Software, ArduBlock 3.0, Arduino IDE, Circuit Designer IDE, Wokwi, Scratch, MATLAB, Proteus, LTspice, Tinkercad
  - **Programming Languages:** Python, C
  - **Languages:** Hindi, English
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## ACHIEVEMENTS

- Cyber Security Awareness Program Certificate
  - Medha Training Certificate
  - Awarded Competition Certificates for active participation and strong performance in the Rescue Maze competition at RCJ, Noida.
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## PERSONAL DETAILS

- **Father's Name:** Mr. Rakesh Kumar Verma
  - **Date of Birth:** 01 July 2000
  - **Gender/Nationality:** Male | Indian | **Passport:** Available (Valid)
  - **Hobbies:** Chess, Sudoku
  - **Address:** Village Jigini, Post Manjheriya Vikram, District Basti – 272002, Uttar Pradesh
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## DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

**RITESH KUMAR VERMA**