Ashish Kumar

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OBJECTIVE:

A highly motivated Electronics and Communication Engineering graduate with strong fundamentals in analog & digital electronics, embedded systems, and communication technologies. Seeking a core electronics position to apply my academic knowledge and hands-on skills in real-world projects and contribute to the success of a forward-thinking organization.

SKILLS:

- **Software & Tools:** MATLAB, Multisim
- **HDLs:** VHDL, SystemVerilog
- **Programming:** C, C++, Embedded C, Python (basics), Java
- **Communication:** Antenna Design, Modulation Techniques, Wireless Communication
- **Embedded Systems:** Arduino, Raspberry Pi, Microcontrollers (8051, ATmega, STM32)
- **Soft Skills:** Problem Solving, Analytical Thinking, Ownership, Fast Learner, Strong Communication

ACADEMIC PROJECTS:

- ❖ <u>EMP Gun (Electromagnetic Pulse Gun)</u>
  - Designed a portable EMP device capable of disrupting nearby electronic devices.
  - Worked on capacitor bank charging, high-voltage switching, and pulse discharge coil.
  - Gained deep understanding of electromagnetic interference, Faraday shielding, and high-voltage safety handling.

- ❖ <u>Face Tracking Turret using OpenCV and Arduino</u>
  - Built an automated turret that detects and tracks faces using webcam and OpenCV (Python).
  - Used servo motors controlled by Arduino for real-time motion tracking.
  - Integrated serial communication between Python (PC) and Arduino (Microcontroller) for smooth operation.
  - Demonstrated skills in image processing, embedded control, and mechatronics integration.

EDUCATION:

Institution	Year of Passing	Course	University / Board
University Institute of Engineering & Technology	2025	B. Tech (Electronics and communication Engineering)	Maharshi Dayanand University, Rohtak
Marigold Public School (Katewara, Delhi)	2019	HSC	Central Board of Secondary Education, New Delhi
Govt Boys' Sen Sec School (Mahipalpur, Delhi)	2017	SSC	Central Board of Secondary Education, New Delhi

CERTIFICATIONS & ACHIEVEMENTS:

- Runner-up – Circuit Debugging Contest at TechFest (Maharshi Dayanand University)
- Top 25% – Invictus Coding Contest by DTU – 2025

LANGUAGES

LANGUAGE NAME	READ	WRITE	SPEAK
English	Proficient	Proficient	Intermediate
Hindi	Proficient	Proficient	Proficient