AYUSH GUPTA

+91-9873797895 | ayush.gupta.ug22@nsut.ac.in | LinkedIn

EDUCATION

Course	College / University	Year	CGPA %
B.Tech (ICE)	Netaji Subhas University of Technology	2026	7.09
CBSE (Class XII)	New Multan Nagar Senior Secondary School	2021	85
CBSE (Class X)	New Saraswati Public School	2019	92.8

INTERNSHIP

- **RF Antenna Design Intern | NSUT – Department of ECE | Delhi,India** **June 2025 - Current**
  - Working on L5-band antenna design and optimization using CST Studio Suite, targeting resonance at 1.176 GHz.
  - Designed and simulated antenna models including ground plane, substrate, feed line, microstrip patch, and port setup.
  - Analyzed and optimized S-parameters, Z-parameters, bandwidth, and return loss, with focus on achieving broadband operation and improved radiation performance.

PROJECT

- **Simulation of Temperature and Flow Control Systems**
  - Simulated temperature and flow control processes using MATLAB/Simulink to analyze system dynamics and controller behavior.
  - Implemented and tuned P, PI, and PID controllers; utilized state-space modeling and pole placement techniques to assess stability and improve transient response.
- **PID-Based Speed Control of a DC Motor**
  - Developed and implemented a PID controller for real-time speed control of a DC motor using Matlab and Simulink hardware interfacing.
  - Tuned controller gains to minimize overshoot and steady-state error, ensuring stable performance under varying load conditions..

POSITIONS OF RESPONSIBILITY

- **Project Group Leader | Academic Project** **Sep 2024-Oct 2024**
  - Led a 4-member team in designing and developing a smart sensor-based control system as part of a core ICE academic project.
  - Managed task distribution, supervised technical implementation, and ensured timely progress across all phases of development.
  - Handled system integration, documentation, and presented the final working model during project evaluation.

ACADEMIC ACHIEVEMENTS

- Maintained an overall CGPA of 7.09/10, with consistent academic growth from 6.2 to 7.67 over six semesters, reflecting improved proficiency in core engineering subjects.

OTHER INFORMATION

- **Technical Skills & Tools**: Proficient in C, Java,JavaScript,Python,MATLAB/Simulink,and SQL with hands-on experience in programming.Skilled in circuit design, control simulation, and real-time data acquisition using embedded systems.