Aditya Pahariya

B.Tech - Electrical Engineering
Maulana Azad National Institute of Technology Bhopal

Examination	University	Institute / School	Year	CGPA / %
Graduation	MANIT Bhopal	MANIT Bhopal	2018-Present	9.53/10
Intermediate/+2	CBSE	Happy days school, shivpuri	2017	81.40 %
Matriculation	CBSE	KV ITBP Karera	2015	10/10

INTERNSHIPS & TRAINING

SRFP'21 : CSIR-CMERI-CoEFM, Ludhiana | *Guide: Mr. Hanumath Prasad Ikkurti* [May'21–Jul'21]
Research-based internship sponsored by the Indian Academy of Sciences, Bangalore

- Modeled synchronous generator **from scratch** using elements like (Summer, Integrator, Differentiator, Gain, etc.) using generalised theory of machines and Control systems
- **Developed** a working model in the Simulink; performed analysis of generator on various loading conditions
- **Solved** Algebraic loop problem, Denominator singularity issues with the help of unit delay and LPF respectively

Power Distribution Training Center, Bhopal [Dec'19]

- Visited SCADA Centre, Transformer repair centre, 132/33 KV substation, Meter testing laboratory
- Learnt operations of circuit breakers, power transformer, and CT & PT

KEY PROJECTS

Electric vehicle cost optimisation | *Guide: Prof. Priyanka Paliwal* [Jan'21–May'21]

- Explored the possibility of using 12V/100Ah lead-acid battery with chopper set (each rated 240W) in electric vehicles to replace conventional 60V/24Ah battery; **reduced the cost by 26% (approx. INR 13,000)**
- Implemented the concept in a vehicle; simulated the model in Simulink to validate readings of rated parameters

Automatic Dustbin | *Guide: Prof.Suresh Gawre* [Nov'19]
- Engineered working model of automatic dustbin using Arduino UNO, servo motor, and ultrasonic sensor

POSITIONS OF RESPONSIBILITY

IEEE MANIT Student Branch | *A platform to connect with IEEE activities* [Aug'19–Present]
Team size: 50+ | Budget: INR 0.7 million (SCEECS) | Events: 3 | Participants: 1000+

Vice Chair-person | *Finance Head* Jun'21–Present

- Successfully organized recruitment drive of over 350+ Students (Written test + Interview) **(115% y-o-y increment in participation)**

Treasurer and Core Team Member Aug'19–May'21

- Part of 45-member team responsible for conducting SCEECS (national bi-annual intercollegiate research conference); promoted the event amongst 1000+ students from 5 colleges in Bhopal; garnered INR 100k+ worth of registrations **(20% y-o-y growth)**
- Demonstrated hand made cost-effective scientific projects to 100+ students from 2 government schools in Aarambh

ACHIEVEMENTS AND EXTRACURRICULARS

Academics	- Department **Rank 1 out of 105** students - Branch upgrade to Electrical Engineering by securing a position in **top 2 percentile**
Skills	- Simulink, MATLAB, OOPS, C/C++, MS Office, Public speaking, Leadership, Speed maths
Courses	- Microprocessor 8085 (10/10), Control systems (9.2/10), Computer Programming (10/10)
Hobbies	- Solving puzzles, Watching movies, Rubik's cube (45 seconds best), Playing Chess
Sports	- Featured among **Top 4 players** (Bullet) of NIT-B chess team in All India chess league ['20]
Volunteering	- TPO Cell NIT-Bhopal: Active member of Calling team and managing EE stats (2021-22) ['21] - Aaroha (NGO): Led team of 7 Volunteers in FR event ;Fund raised 40k+ (150% y-o-y increase) ['19] - Aaroha (NGO): Conducted 2-Day long survey in a slum; **featured in Dainik Jagran** ['19]
School Level	- Ranked **15 out of 100** Participants in Regional U-17 Chess Competition (KVS) ['14] - 21st NCSC : **Ranked 1 out of 100** Projects at Regional Level, National Level participation ['13]