

Yati Gupta

📍 New Delhi, Delhi, India 📧 yati2001997@st.jmi.ac.in 📞 6396055211 🌐 <https://www.linkedin.com/in/yati-gupta-8b1aa5270/>

EXPERIENCE

VLSI Research Intern

Niti Aayog

March 2023 - Present

• As a VLSI Research Intern, I will have the opportunity to work on cutting-edge technologies and gain hands-on experience in designing and testing integrated circuits.

Remote Intern

Emertxe

April 2022 - May 2022

• Developed and implemented Guided Instructions for remote workers and streamlined onboarding process, reducing onboarding time for new employees by 50% & Understanding the various product development phases & skills required to work on Embedded Product in industry.

Social Media Head & Executive Member Head (Under Tech Team)

ACM-W JMI

May 2022 - May 2023

• Automated workflows and developed tools to streamline livestream broadcasts and podcast production, which successfully established a presence in the industry with a 20% reach increase compared to the previous year.

PROJECTS

Implementation of Quantum Key Distribution Protocol BB84 on FPGA

- Quantum Communication methodology has been designed using Cryptographic Protocol along with parallel processing power of FPGAs.
- This methodology ensures secure communication by exploiting the principles of quantum mechanics and can potentially revolutionize the field of data security.
- Additionally, FPGAs allow for faster processing and efficient implementation of the cryptographic protocol.

EYantra Robotics Competition

- The SM Bot for deployment on an arena that abstracts an agriculture field. The brain of the bot is powered by an FPGA that controls its sensors, actuators, and pick-and-place mechanism.
- Implemented SPI & UART Protocols for data interpretation and wireless message transfer.
- Implement Dijkstra's Algorithm in Verilog for the choice of shortest path.
- Wireless communication was established using the ZigBee Modules.
- TCS3200 color sensor was used to sense colors in the arena.

Medicare

- The proposed online doctor appointment booking system project aims to provide patients with a convenient and efficient way to schedule appointments with their healthcare providers.
- The system will also allow doctors to manage their schedules and patient information more effectively, leading to improved patient care.

EDUCATION

B.Tech in Electronics & Communication Engineering

Jamia Millia Islamia • New Delhi • 2024 • 94.95%

Diploma in Computer Engineering

Aligarh Muslim University • Aligarh, U.P. • 2019 • 85.06% (First Hons.)

COURSEWORK

Introduction to Quantum Computing, Intro to VLSI

Operating Systems, Data Structures, Database Management

INVOLVEMENT

Student Core Committee Member

JMI • IQAC NAAC • March 2023 - Present

- IQAC/NAAC is responsible for actively participating in the development and implementation of quality assurance policies and procedures in their institution, as well as providing feedback and suggestions for improvement.
- They also serve as a liaison between students and the institution's administration, ensuring that student voices are heard and considered in decision-making processes.

DSA Team Head

JMI • Google Developers Student Club • November 2022 - Present

- GDSC is a program that aims to provide students with the resources and opportunities to learn, share and connect with industry professionals in the field of technology.
- The program offers various activities such as workshops, hackathons, networking events, and mentorship programs to help students enhance their skills and build their career in tech.

INAE Student Member

IIT-Jodhpur · INAE Youth Conclave'22 · September 2022 - Present

- This membership provides opportunities to network with industry experts and gain access to exclusive resources and events that can help you further your career in engineering. Congratulations on this achievement.

SKILLS

Tech Skills: C/C++, HTML, CSS, Javascript, SQL, Verilog, ROS, Analog & Digital Electronics, Circuit Designing

Tools: Git, VSCode, Google Cloud Platform, MATLAB, EDA, PSpice, LTspice, Vivado(Xilinx), Quartus Prime, ModelSim

Operating System: Windows, Linux

Soft Skills: Leadership, Event Management, Quizzing, Case Contest, Flexibility, Analytical Thinking