# Syeed Mohd Ameen

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## RESEARCH INTERESTS

Computer Security, Brain Computer Interface, Computer Architecture, Parallel Computation, Embedded System, Energy-Efficient Computation, Image Processing and Machine Learning.

## RESEARCH EXPERIENCE

- Worked as a **Junior Research Fellow**, (Embedded System Laboratory) from May'23 – Feb'24 at Indian Institute of Technology (IIT), New Delhi -110016, India.

## TEACHING EXPERIENCE

- Worked as a **Lecturer (Computer science)** for academic session 2024-25, 2025-26 at Jamia Millia Islamia, New Delhi 110025 India.

## ACADEMIC QUALIFICATIONS

- Master of Technology in Software Engg., Aligarh Muslim Univesity, India (2021-2023)
- Bachelor of Technology in Computer Science & Engg., Rajasthan Technical University, India (2017-2021)

## HONORS & AWARDS

- Qualified National Eligibility Test (UGC-NET) in Computer Science, 2023
- Qualified Graduate Aptitude Test in Engineering, 2024, 2025.

## SKILLS

- Languages: C/C++, python(advance), Java, R  Kotlin (Intermediate)
- Softwares : Android Studio, Arduino IDE, Visual Studio
- Framewroks/libraries : Tensorflow, NumPy, Pandas, matplotlib, scikit-learn
- Web : HTML, CSS, JavaScript, Django, flask
- Communication protocols : I2C, SPI, UART, Zigbee, Bluetooth, 802.11, Thread, LoRa
- Programmable devices : AVR, PIC and ARM – based microcontrollers, EPS32, RP2040, RP2350
- Database : MongoDB, MySQL
- Instruction set architecture : x86, AVR, RISC-V, MCS-51, 6502 (Assembly languages)
- EDA : KiCad (PCB schematic and board layout designing)
- CAD : FreeCAD

## KEY ACADEMIC PROJECTS

- **AT89S52:** A SPI programmer for AT89Sxx series of microcontrollers (repository)
- **Miniflight:** Budget flight controller using ATmega328p (repository)
- **F8051 FPU:** Floating point subroutines for 8051 microcontroller (repository)
- **Glucose:** A open source smart watch ecosystem (repository)
- **MCS51:** A assembler for MCS-51 (repository)
- Design and development of a subsidence detection system in landslide prone hill slopes

## PUBLICATIONS

1. S. M. Saquib, C. Prasanthi, R. Babu, S. M. Ameen; "EffSwinNet: A Hybrid Convolutional and Transformer for Robust Endoscopic Image Classification", *2nd ICAIET. December 2025*

2. S. Akhtar, R. Ali, S. M. Ameen; "Predicting the surface elastic parameters of soft solids using multi-output decision tree regressor", *AIP Conf. Proc. 2 July 2024;* 3168 (1): 020024. https://doi.org/10.1063/5.0219700.

3. S. M. Ameen, Y. Kathat, S. Shah, K. Jangid, R. Sharma, "Implementation Graph Search Technique on A Navigation Line Follower Robot", IJSRED-V4I4P103 Page(s): 731-735.

## SEMINARS / CONFERENCES / WORKSHOPS ATTENDED

- Presented a technical poster titled "EffSwinNet: Combining CNNs and Transformer for Accurate Endoscopic Image Diagnosis" at AI Impact 2026 Pre-Summit Activity, Department of Computer Engineering, Jamia Millia Islamia, 10 February 2026.
- Completed the NPTEL online certification course on "Advanced Computer Architecture", offered by Indian Institute of Technology Madras, April 2023.
- Conducted a one-day workshop on "Arduino Essentials" on 25 March 2023, organized by AMURoboclub, Zakir Hussain College of Engineering & Technology, Aligarh Muslim University, Aligarh

## PERSONAL INFORMATION

- Citizenship – Indian
- Address - Ghaffar Manzil Colony, Jamia Nagar, Okhla, New Delhi, Delhi 110025
- Passport Number - Y6711248 (Valid up to 2033)