Syeed Mohd Ameen

https://syeedameen.github.io/

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EXPERIENCE

- **Indian Institute of Technology Delhi** — New Delhi, IN
  Jr. Research Fellow — *May 2023 - Feb 2024*
  - **Design and development of a subsidence detection system in landslide prone hill slopes.**:
    - Design and development of sensor node firmware using ESP32 SOC's.
    - Sensor node PCB design on EDA software.
    - Conducting deployment of sensor node activities in the lab.

EDUCATION

- **Master of Technology in Software Engineering** — Jun 2021 - Jun 2023
  *Aligarh Muslim University (AMU), **CGPA: 8.02/10.0*** — *Aligarh, India*
  - **Relevant courses**: Advance Computer Architecture, Machine Learning, Image processing and Computer vision, Big Data Analytics, Numerical and Statistical Techniques

- **Bachelor of Technology in Computer Science and Engineering** — Jun 2017 - Jun 2021
  *Rajasthan Technical University, **percentage: 68.01*** — *Kota, India*
  - **Relevant courses**: Data Structure, Operating System, Design & Analysis of Algorithm, Data Base Management System, Compiler Design, Embedded System, Distributed System.

SKILLS

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

KEY ACADEMIC PROJECTS

- **miniflight: Budget flight controller for drone using ATmega328p microcontroller** - repository
- **AT89S52: A SPI Programmer that can program AT89Sxx series of Microcontrollers** - repository
- **Smart City Integration using google voice kit**
- **8051 FPU: Fast Floating Point Subrountines support for 8051 Microcontroller** - repository

PUBLICATIONS

- **Accepted** : Accepted: Saeed Akhtar, Dr. Rashid Ali, and **Syeed Mohd Ameen**, "Predicting the Surface Elastic Parameters of Soft Solids using Multi-Output Decision Tree Regressor", International Conference on Recent Advancements in Computing Technologies Engineering (RACTE-2023).
- : **Syeed Mohd Ameen**, Yunus Kathat, Sunny Kr Shah, Kapil Kr Jangid, Ritika Sharma, "Implementation Graph Search Technique on A Navigation Line Follower Robot" IJSRED-V4I4P103 Page(s): 731-735

Research Experience

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M.Tech Thesis: Energy efficient heterogeneous multi-core architecture for edge computing devices

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B.TECH Project: (High level Assembler for MCS-51 ISA)

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AMURoboclub   Aligarh, IN
PG Representative   *Jun 2022 - Jun 2023*
- Taking various workshops on (STM32, Arduino, Raspberry pi) development board.
- Supervise different projects group in the lab.
- Manage ABU Robocon (Asia Pacific Robot contest) team as leader and mentor.

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AIET Robotics Lab   Jaipur, IN
Software Engineer   *Jul 2018 - Feb 2019*
- Develop flight controller firmware using STM32 AVR series of microcontroller (all the low-level subroutines written in assembly language in order to optimize every single byte and performance).
- Testing and debugging the raw data of accelerometer, gyroscope.
- Design flight controller PCB on Eagle EDA software.

Personal Information

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∗ Nationality - Indian
∗ Passport Number -   **Y6711248** (Valid up to 2033)