

Hisam Mehboob

hissamshar.github.io

Email : hisamshar@gmail.com

Mobile : +92 323 3587380

Github : hissamshar

EXPERIENCE

- **COLAB NU** Peshawar, Khyber Pakhtunkhwa
Teir 1 Member Oct 2024 - Present
 - **Hugo**: Developed static websites using Hugo, leveraging its fast build times and Go-based architecture for efficient content management and templating.
 - **Kernal Programming**: Created custom Linux kernel modules, focusing on low-level system optimization, device drivers, and hardware-software interaction for enhanced performance.
 - **Raspberry Pi 5** : Engineered IoT and embedded systems solutions using Raspberry Pi 5, integrating GPIO, and hardware automation for custom projects.

PROJECTS

- **Text Editor**: Coded in C/C++ with no dependencies, and it implements all the basic features.
- **POSIX Shell**: Built a Portable Operating System Interface compliant shell in C language.
- **Ray Tracing**: Implemented a ray tracer from scratch using C++ gaining hands-on experience in rendering algorithms, 3D graphics, and computational geometry.
- **Nand2Tetris**: Built a modern computer system from the ground up, designing hardware components (from logic gates to CPU) and software layers (assembler, virtual machine, and compiler) to create a computer capable of running high-level programs.

COMMUNITIES WORK

- **IEEE FAST NUCES, Fast National University Peshawar** Mar. 2025 – Present
Junior Representative
 - **Work**: Participated in IEEE-hosted campus events, workshops, and tech seminars to expand knowledge in cutting-edge engineering trends and network with industry peers.
- **MLSA FAST NUCES, Fast National University Peshawar** Oct. 2024 – Present
General Member
 - **Work**: Promoted tech literacy by organizing workshops, mentoring peers, and advocating for Microsoft tools like Azure and Power Platform in academic communities.
- **Book Club FAST NUCES, Fast National University Peshawar** Nov. 2024 – Present
Memembr
 - **Work**: Participated in interdisciplinary discussions on technical and non-technical literature to foster critical thinking, communication, and collaborative learning.

EDUCATION

- **National University of Computer and Emerging Sciences** Aug. 2024 – Jun. 2028
Bachelor of Science in Computer Science; CGPA:3.50
 - **Coursework**: Operating Systems, Parallel and Distributed Computing, Computer Organization and Assembly Language, Data Structures, Algorithms, Software Testing and Debugging.

PROGRAMMING SKILLS AND PARTICIPATIONS

- **Languages**: C, C++, Python, JavaScript **Technologies**: Hugo, LaTeX, RPi 5, Qemu/KVM, Git, GitHub **Participations**: FAST Problem-Solving Challenge, Codeforces