

Hisam Mehboob

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PROFILE

Computer Science student with hands-on experience in systems and embedded programming, aiming to build innovative, low-level tech solutions that bridge hardware and software.

EXPERIENCE

- **COLAB NU** Peshawar, Khyber Pakhtunkhwa
Tier 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.
 - **Kernel 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.

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.