

ZAIN UL NAZIR

BIOMEDICAL ENGINEER

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PROFILE

Innovative Biomedical Engineering graduate with a strong foundation in medical instrumentation, tissue engineering, and device design. Distinguishes oneself through a unique blend of core engineering skills and advanced technical proficiency in automation, cloud infrastructure, and Python programming. Committed to optimizing medical equipment performance and improving patient outcomes through effective clinical engineering practices and innovative technical solutions.

EDUCATION

B.Tech in Biomedical Engineering

Nov 2020 – June 2025

Government College of Engineering & Technology, Kashmir

CGPA: 7.48

Focus Areas: Bio-Medical Instrumentation, Medical Imaging, Tissue Engineering.

EXPERIENCE

Biomedical Engineering Intern

2024

TBS India (S.M.H.S Hospital, Srinagar)

Executed preventive maintenance and calibration protocols for critical care equipment, ensuring 100% adherence to hospital safety standards. Collaborated with senior clinical engineers to troubleshoot high-end medical imaging and life-support devices, significantly reducing equipment downtime. Gained hands-on experience in hospital inventory management and technical reporting.

PROJECTS

NIR Vein Finder Device

2024 – 2025

Medical Device Design

Designed and prototyped a cost-efficient Vein Finder utilizing Near-Infrared (NIR) illumination technology to assist in difficult venipuncture procedures. Successfully reduced production costs by 90% compared to market alternatives. Modeled the device enclosure using SolidWorks and integrated the optical system for optimal visualization.

HapticFeed

Personal Project

Automated Tech Content Platform

Developed a fully automated technology content platform utilizing n8n and Supabase. Engineered a content pipeline that fetches RSS feeds, processes information using Gemini AI for summarization, and publishes updates automatically. Demonstrates strong capability in workflow automation, API integration, and database management.

Home Lab Infrastructure

Personal Project

Hybrid Cloud/Local Server

Architected a hybrid server environment using Raspberry Pi 4B and Oracle Cloud instances. Configured Linux-based services for network management and open-source software hosting, highlighting self-taught proficiency in computer architecture and system administration.

SKILLS

BIOMEDICAL ENGINEERING

Medical Device Design (SolidWorks), Instrumentation & Calibration, Medical Imaging Systems, Patient Safety Protocols, QA/QC.

SOFTWARE & TECHNOLOGY

Python, Linux (Bash/Shell), n8n Workflow Automation, Oracle Cloud, Raspberry Pi, AI Integration (LLMs).

LANGUAGES

Hindi (Native), English (Proficient).