

Huzaifa Ahmed Khan

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Objective

Looking for an internship or **research-driven collaborative role** in *computational physics, computer vision, or data science*, where I can apply physics-informed modeling, machine learning, and scientific computing to real-world and research-oriented problems.

Education

2024 – 2028 **BS in Physics**, *NED University of Engineering and Technology*

- * Currently pursuing Bachelor's in **Physics**.

2025 – 2026 **Non-degree/Credit bearing courses for Physics/Engineering**, *IEEE Learning Network*

- * Participated in IEEE professional development and online learning programs focused on physics and engineering.

- * Strengthened academic knowledge and improved technical skills through continuing education.

- * Completed courses credited by the IEEE, with transcripts provided.

2022 – 2024 **Intermediate in Computer Science**, *Sir Adamjee Institute*

- * Achieved Grade: **A**

2008 – 2022 **Matriculation in Computer Science**, *Happy Palace Group of Schools*

- * Achieved Grade: **A**

Experience

Jan 2026 – Feb 2026 **Computer Vision Engineer (Intern)**, *Arch Technologies (Remote)*

- * Worked on **computer vision pipelines** (preprocessing, feature extraction, evaluation).

- * Supported model testing and integration in a remote team workflow.

Jul 2025 – Aug 2025 **Summer Intern**, *NED University of Engineering and Technology (Hybrid)*

- * Built **interactive physics simulations** using HTML, CSS, JavaScript, p5.js, Chart.js, and MathJax.

- * Designed *responsive UIs* and accurate physics models to enhance student learning.

- * Deployed web applications to support undergraduate education and experimentation.

Jan 2024 – Present **Creative Director & Co-Founder**, *Media Core (Hybrid)*

- * Co-founded a **media services startup** that provides creative solutions for local brands.

- * Oriented cross-platform *branding, content, and corporate design*.

- * Strengthened digital presence through **Instagram @nolongerhuzaifa & @mediacoree**.

Mar 2023 – Dec 2025 **Graphic Designer**, *Hi-Tech Machinery (Remote, Part-time)*

- * Produced **catalogs, corporate diagrams, and promotional artwork**.

- * Maintained consistent *brand identity* across industrial communication.

May 2024 – Aug 2025 **Freelance Graphic Designer**, *Chromaplate (Remote)*

- * Designed **metal poster artwork** reflecting global design trends.

- * Enhanced sales through strong *visual storytelling and aesthetics*.

Skills

Programming Languages: Python, C++ , C, JavaScript, HTML, CSS

Scientific & Engineering Computing: NumPy, SciPy, Pandas, Astropy, RocketPy, Poliastro, GeoPandas, PyTorch, Computational Fluid Dynamics (CFD), Finite Element Method (FEM), Scientific Modeling & Simulation

Machine Learning & Computer Vision: Machine Learning, Computer Vision, Deep Learning (PyTorch), Data Analysis, Feature Engineering, Model Evaluation

Visualization & Web Technologies: p5.js, Chart.js, MathJax, Interactive Scientific Visualization, Web-based Simulations

Tools & Platforms: Git, $\LaTeX$, QGIS, Google Earth Engine, OpenRocket, Adobe Creative Cloud (Photoshop, Illustrator, InDesign, Premiere Pro), Microsoft Office, Google Workspace

Security & Systems (Foundational): Applied Cryptography, Cybersecurity Fundamentals, OSINT, Threat Intelligence

Soft Skills: Research-Oriented Problem Solving, Analytical Thinking, Technical Communication, Leadership, Cross-disciplinary Collaboration

Projects

Jun 2025 **Physics Simulation Website**, *Summer Internship @ NEDUET*

github.com/Huzitive/neduet-physics-dept-sim-pckg

- * Built **interactive simulations** for wave motion, pendulums, and resonance.
- * Implemented *UI controls*, real-time graphing, and formula visualization.
- * Tools: HTML5, CSS, JS, Chart.js, p5.js, MathJax.

Apr 2025 **Exploring Resonance**, *Physics Exhibition @ NEDUET*

github.com/Huzitive/Resonance104

- * Developed **animations, interactive graphs and simulations**.
- * Enhanced public understanding of *real-world resonance effects*.

Licenses & Certifications

Professional Certificates & Specializations

* NASA Applied Remote Sensing Training (ARSET), NASA	May 2026
* NASA Open Science Training, NASA	Sep 2025
* CERN Solvay Education Program, CERN	Nov 2025
* Applied AI for Engineers and Scientists: Foundations Specialization, University of Glasgow	Sep 2025
* Mathematics for Engineers Specialization, The Hong Kong University of Science and Technology	Sep 2025
* CompTIA Cybersecurity Analyst (CySA+) CS0-003 , Pearson	Nov 2025
* Red Hat Certified Engineer (RHCE) EX294, Pearson	May 2026
* Computer Vision, Uni of Colorado Boulder	Oct 2025
* Certified Incident Handler (ECIH) v2 Specialization, Packt	Sep 2025
* Red Hat Certified Engineer (RHCE) EX294, Pearson	Dec 2025
* Data Science Fundamentals Specialization, UC Irvine	Sep 2025
* Quantum Computing Course for Beginners Specialization, Packt	Sep 2025
* Arctic Meltdown Specialization, Uni of Colorado Boulder	Oct 2025

Technical & Engineering Certifications

* Applied Computational Fluid Dynamics, Siemens	Sep 2025
* Algorithmic Problem Solving, Packt	Nov 2025
* Spatial Analysis & Satellite Imagery in GIS, Univ. of Toronto	Aug 2025
* Data-Driven Animation for Science Communication, UC Santa Cruz	Sep 2025
* Applied Cryptography, Univ. of London	Jul 2025
* Applied Calculus with Python, Johns Hopkins University	Jul 2025
* Statistical Analysis of Data for Researchers, HEC Pakistan	Jan 2025

Leadership & Professional Development

* Adobe Content Creator Professional Certificate, Adobe	Sep 2025
* Leadership and Team Management Specialization, Packt	Sep 2025
* F1 High-Performance Leadership, Santander Open Academy	Jul 2025
* Critical Thinking & Logic, Coursera	Aug 2025

Full list of 30+ certifications available on LinkedIn

Memberships / Affiliation

Student Member , <i>IEEE</i>	2025 – Present
Active member of the Computer Society , Aerospace and Electronic Systems Society (AESS) , and the IEEE Sensors Council . Engaged with peer-reviewed publications such as <i>IEEE Computer Magazine</i> , <i>IEEE Transactions on Aerospace and Electronic Systems</i> , and the <i>IEEE Sensors Journal</i> . Access to IEEE Xplore and specialized resources for professional development in computing, aerospace, and sensor technologies .	
Virtual Guest , <i>NASA</i>	2025 – Present
Participant in NASA's <i>Virtual Guest Program</i> , engaging with mission broadcasts, Artemis briefings and STEM outreach . Active contributor to global space exploration initiatives through sustained virtual participation.	

Languages

Urdu – Native Proficiency
English – Full Professional Proficiency (C2)
German – Elementary Proficiency (A1)