

# MUHAMMAD EHTESHAM SAFEER

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## SUMMARY

VR Simulation Developer with hands-on experience building training, safety, medical, and educational VR applications using Unity. Proven ability to design interactive simulations, integrate real world data (e.g EMG), and deploy solutions for VR devices. Strong foundation in computer science, game programming, and applied AI.

## EDUCATION

### B.S. Computer Science

Namal University, Mianwali, Pakistan

Department of Computer Science

Relevant coursework: Game Development, AI & Machine Learning, Software Engineering

Graduated, July 2024

3.35 GPA

## TECHNICAL SKILLS

**VR / XR Development:** Unity 6, OpenXR, XR Interaction Toolkit, VR Optimization, Physics Simulation

**Simulation & Interaction:** Training Simulations, Medical, Rehab VR, Safety

**Programming:** C#, Python, C, JavaScript

**Tools:** Blender, Adobe Photoshop, Git, Microsoft Office

**AI Integration:** ChatGPT API, AI-assisted Guidance Systems

## EXPERIENCE

### Hard Hat VR, USA | Remote: VR Programmer

April 2025 – Dec 2025

- Developed VR applications for clients using Unity, OpenXR, and C#.
- Designed and implemented gameplay mechanics, physics simulations, and AI behaviors.
- Created AR/VR applications for various industries, including healthcare and education.
- Implemented Spanish localization using Pixel Crusher Dialogue System and Ink Dialogue System.

## PROJECTS

### VR Application for Improving Upper Limb Hemiplegic Motor Disorder (FYP)

Spring 2023 – Spring 2024

Collaborated in a team to design and develop the custom VR Application.

- Created six distinct VR games across multiple difficulty levels, incorporating shooting and Gorilla Tag mechanics.
- Integrated EMG sensor data into gameplay, transforming muscle signals into in-game actions.
- Engaged in research to enhance the effectiveness of EMG-based VR application.

### The Zoll Machine Simulation

Spring 2023

Created Zoll Monitor functionalities to operate it in safe realistic environment.

- Realistic wave patterns and audios integrated.
- AI chatbot available for help (powered by ChatGPT).
- Room support real physics interaction with equipments.

## ACHIEVEMENTS AND AWARDS

### Merit Scholarship, Namal University, Mianwali:

Oct 2020 – July 2024

- Awarded a merit-based scholarship for academic performance throughout the undergraduate program.

### Punjab Educational Endowment Fund Scholarship, :

2020

- Received the PEEF scholarship at the intermediate (college) level for academic excellence.

## ACTIVITIES

### Namal Sports and Adventure Club (NSAC)

Sep 2021 – April 2024

Multiple leadership roles, including president and Event Manager

- Organized more than 20 events during my role of President including a mega event called Sports Gala.
- Led a team of 30+ members, managing event execution, budgeting, and securing sponsorships.