

Md Razaul Haque USMANI

Visual Designer (2D/3D) & VR App Developer

ArtStation - Behance - Portfolio

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Professional Summary

An Informatics graduate from Technical University of Munich (TUM) and a versatile professional - skilled in problem-solving, cross-discipline interfacing and organisation - complemented by creativity developed through 10 years of self-taught 2D/3D design and prop art.

Experience

3D Environment Artist (Project) 2025 - Present
TUM-XR Student Initiative

- Created modular 3D environment assets for a VR story game.
- Enforced asset creation workflow best practices (procedural shaders to trim sheets, optimised tri-counts, etc.).
- Collaborated with team to handle level design and programming tasks.

VR App Developer (Project, Master's Thesis) 2023, 2025
TUM CIT, Munich, Germany

- Utilised game engine and virtual reality (VR) technologies.
- Incorporated LLM tools: OpenAI chat and speech-to-text APIs
- Designed UI/UX, 2D/3D assets and levels for each project
- **Master's Thesis:** Tested pose recognition capabilities of AI/LLMs with a 74% resulting accuracy.
- Developed top-featured Intangible Cultural Heritage (ICH) project - **Project Alba** - A VR experience to preserve Spanish Carbajalino Embroidery.

Character Animator (Full-Time) 2020 - 2021
Auleek, Dhaka, Bangladesh

- **Auleek** is a leading 3D art & Animation outsourcing studio in Bangladesh.
- Delivered character animations in different shots for the animated series **Tesla Note**.

Strategic Brand Visualiser (Full-Time) 2019
Roop, Dhaka, Bangladesh

- **Roop** is one of the leading mixed-media advertisement agencies in Bangladesh.
- Created effective brand guidelines and conducted brand pitch meetings.
- Completed time-critical designs for government projects and bank re-brandings.

Education

MSc Informatics 2022 - 2025
Technical University of Munich (TUM), Munich, Germany

- Thesis on VR/HCI/AI: Evaluating the Efficiency of Human-AI Interaction in Virtual Reality using Foundation Models.

BSc Computer Science

2014 - 2018

Brac University, Dhaka, Bangladesh (Recognised and Accredited - ANABIN H+)

- Thesis Publication: "Hazard Reconnaissance Rover Using Raspberry Pi and Multiple Sensors"

Technical Skills

- **2D Design:** Gimp, Adobe Photoshop, Illustrator, After Effects
- **3D Design:** 3DS Max, Maya, Blender, Zbrush, Substance Designer and Painter
- **UI/UX:** Figma, Spline
- **Game Development:** Unity/C#, Meta XR, HTC Vive
- **Render Engines:** Keyshot, Arnold, V-Ray, Cycles/Eevee, Marmoset Toolbag.
- **Design Skills:** Corporate brand identity design and documentation, 3D Product mockup design, Animation and video editing, UX prototyping, Concept art and illustration.
- **Collaboration:** Git, Kanban, Miro, Slack, Teams, Notion
- **Additional:** Full stack web development (MERN), Microsoft Office Suite, Google Workspace, Adobe Creative Cloud. Efficient with modern **generative AI** tools.

Languages

- **Bengali:** Native level
- **English:** C2 - Bilingual/Full working proficiency (All prior education)
- **German:** B1

Additional Work Experience

Web App Developer - Koinon (Student Assistant)

2022 - 2025

TUM School of Management, Munich, Germany

- Led development of mission-critical modules for **university-wide portal** serving **20,000+ users**
- Led agile subteams of 5 developers to create high-priority features, **ensuring CI/CD best practices**
- Adapted quickly to changing workflows and architectures, upholding best coding standards (**PHPStan level 8+**)
- Established written and visual documentation standards, **decreasing new developer onboarding time by 50%**

Publication

M. R. Haque Usmani, L. Maruf Rahman, S. Ahmed, I. Chowdhury and J. Uddin, "Hazard Reconnaissance Rover Using Raspberry Pi and Multiple Sensors," 2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), Dhaka, Bangladesh, 2019

Projects and Clubs

TUM-XR Student Initiative

2025 - Present

- Active member of the Projects and Marketing Departments.
- Contributed as a helper and organiser for XR Ideathon 2025.
- Made active design contributions for redesigning the club website.
- Collaborated in multiple projects for events and club portfolio.