Muhammad Bin Tahir Mir

Technical Artist | Character TD mbintahir.com – mmir@andrew.cmu.edu – 703 705 1628

EDUCATION

CARNEGIE MELLON UNIVERSITY, ENTERTAINMENT TECHNOLOGY CENTER (ETC)

MASTER OF ENTERTAINMENT TECHNOLOGY Graduating May '20 | Pittsburgh, USA Cum. GPA: 3.57 / 4.0

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)

BS IN COMPUTER SCIENCE Graduated May '17 | Lahore, Pakistan

COURSEWORK

GRADUATE

Technical Animation Building Virtual Worlds Visual Story Improvisational Acting

UNDERGRADUATE

Computer Graphics Human Computer Interaction Topics in Interactive Computing Software Engineering Advanced Programming Computer Vision

SKILLS

ART & DESIGN

Tools:

- Maya Photoshop Premier Pro Crafts:
- Rigging Animation Illustration

PROGRAMMING

Languages:

- Python PyQt & PySide PyMel
- HTML CSS JavaScript
- (# (++

Game Engines & Tools:

- Unity Perforce Git Platforms:
- Vive Oculus Kinect

EXPERIENCE

CARNEGIE MELLON | UNITY SCRIPTING RESEARCH ASSISTANT Feb 2019 – Ongoing | Pittsburgh, USA

• Developing a mobile app in Unity for an educational game.

MANO ANIMATION STUDIOS | TRADITIONAL CHARACTER ANIMATOR July 2017 - March 2018 | Karachi, Pakistan

- Animated 12 entire shots (30 seconds worth of traditional animation footage) for Pakistan's first hand-drawn animated feature film, 'The Glassworker'.
- Put Disney's 12 Principles of Animation into practice. Strongly familiarized myself with entire traditional animation pipeline.

KOÇ UNIVERSITY | PYTHON SCRIPTING RESEARCH ASSISTANT

June 2016 – August 2016 | Istanbul, Turkey

• Made use of PyOpenCV, Caffe and the Kinect SDK among other tools to develop a Python desktop application employing a projector and depth-sensing camera to explore possible indoor applications of spatial AR.

ACADEMIC PROJECTS

SIRENA - ANIMATED SHORT | CHARACTER TD, TOOL DEVELOPER

Semester Project, Spring 2019 (Ongoing) | ETC, Pittsburgh, USA

- Rigging all characters and props for the film.
- Developing Maya tools for automating processes in the art pipeline.

BUILDING VIRTUAL WORLDS | 3D GENERALIST, GAME DESIGNER Course Projects, Fall 2018 | ETC, Pittsburgh, USA

- Worked in interdisciplinary 5-person teams, rapidly prototyping and developing VR and AR experiences (for the HTC Vive, Oculus Leap Motion, Meta II, CAVE) over 2-week sprints after which teams were shuffled.
- Rigged, animated, modelled and textured multiple characters and environment assets in Maya + Successfully imported these assets for use in Unity.

INDEPENDENT STUDIES

BIPEDAL RIG | MAYA - Rigging - October 2018

• Implemented a bi-pedal rig from scratch including but not limited to the following features: Flexible spine, FK/IK arms and legs, independent hip movement, reverse feet rig, eye targeting, space-switching IK arms and hand/finger controls.

CHARACTER DESIGN | PHOTOSHOP - Art Fundamentals - Jan 2018

- Researched principles of character design for 2d animation.
- Drew several iterations on paper, adjusted according to feedback.
- Drew 360 degree turnarounds for the characters.

HONOURS

- 2018 CMU ETC Festival Poster Design Competition Winner.
- 2018 Selected as 1 of Young Sustainable Impact's (YSI) 21 global leaders from a pool of 9000+ applicants to design solutions for sustainability related issues.