

(Nixon) Yi Heng

Cheng

COMPUTER GRAPHICS ENGINEER ·
TECHNICAL ARTIST

@ voxell.technologies@gmail.com

(+60) 173389100

¶ Malaysia

in nixonyh

⊘ linktr.ee/voxell

nixon-voxell

■ @voxelltech

nixon-voxell

SKILLS

Languages Rust, C#, WGSL, HLSL, GLSL, Python, Typescript, C++, Dart, Java, PHP, R

Expertise Real-time Physics Simulation, Animation, Motion Graphics, Graphics Programming, Parallel/

Multithreading, Deep Learning, VFX, Bevy Engine, Unity3D, Unreal Engine

EXPERIENCE

Rust Malaysia Malaysia

Co-Host Nov. 2023 - Present

• Co-host of Rust Malaysia. Help organize events, give talks, mentor, etc.

23 Bulbs UK

PHYSICS SIMULATION ENGINEER Sep. 2020 - Present

• Develop GPU accelerated cloth simulation engine.

• Tools & pipeline for cloth/softbody authoring.

Hedra US

Animation Programmer Intern
 Create animation systems for generating keyframe animations that can be imported and exported.

• Deal with different types of animation e.g. character rig, blend poses, flame poses, transform, etc.

• All in the Bevy game engine using Rust.

APU Game Development Club

KL, Malaysia

1

Mar. 2024 - Jul. 2024

HEAD OF EVENTS Feb. 2023 - April. 2024

• Organize and manage events for the club.

Fiverr Remote

GRAPHICS PROGRAMMER

Jun. 2020 - Aug. 2023

• Work on various client projects.

Streamline Studios KL, Malaysia

INTERN GAME PROGRAMMER May. 2022 - Aug. 2022

• Develop Blender addon tools for artists.

• Contributed to Bake n Switch project.

OPEN SOURCE PROJECTS

Lumina https://github.com/nixon-voxell/lumina

A top down, fast paced, objective based, PvP game, written in Rust, using the Bevy game engine.

Bevy MotionGfx https://github.com/voxell-tech/bevy_motiongfx

Motion graphics creation tool in Bevy. (Highly inspired by Motion Canvas and Manim)

Velysthttps://github.com/voxell-tech/velyst

Interactive Typst content creator using Vello and Bevy.

Boom Boom

https://github.com/nixon-voxell/boomboom

A survival bombing game developed entirely using Unity DOTS.

Bevy Motion Matching https://github.com/kahboon0425/bevy_motion_matching

A machine learning based motion matching animation system.

For a whole list of projects, head to https://github.com/nixon-voxell (my GitHub profile) or https://github.com/nixon-voxell (my GitHub profile) or https://github.com/nixon-voxell (my GitHub profile) or https://github.com/nixon-voxell (my GitHub profile) or https://github.com/voxell (https://github.com/voxell GitHub profile) or https://github.com/voxell (https://github.com/voxell-tech") or https://github.com/voxell-tech (https://github.com/voxell-tech") or <a href="https

For a whole list of all my games, head on to https://nixon-voxell.itch.io/ for a look!

EDUCATION

Asia Pacific University of Technology & Innovation (APU)

Cumulative GPA: **3.95** / 4.00

BACHELOR OF SCIENCE (HONOURS) IN COMPUTER GAMES DEVELOPMENT

Aug. 2022 - Present

Asia Pacific University of Technology & Innovation (APU)

Cumulative GPA: **3.80** / 4.00

DIPLOMA IN INFORMATION & COMMUNICATION TECHNOLOGY WITH A SPECIALISM IN SOFTWARE ENGINEERING

Jun. 2020 - Jul. 2022

AWARDS

Certificates: https://www.linkedin.com/in/nixonyh/details/honors/

MDEC PDTI Outstanding Student Category 2023

Mar. 2024

1st Place

2023 4th All American DAVINCI International Innovation and Invention Expo

Sep. 2023

- Gold Medal
- · ATIP Special Award
- OCIIP Special Award
- TISIAS Special Award

DB-SNUbiz Global Startup Challenge 2023

Sep. 2023

Finalist

2023 INNOVERSE Innovation & Invention Expo

Aug. 2023

- Gold Medal
- INNOPA Special Award
- Canadian Spacial Award of Excellence

The 12th World Invention Creativity Olympic 2023

Jul. 2023

- Gold Award
- TISIAS Special Award
- TUMMIAD Special Award

Virtual Innovation Competition 2023

Jun. 2023

• Gold Medal

34th International Invention, Innovation & Technology Exhibition

May. 2023

• Silver Medal

Hilti IT Competition 2023

May. 2023

• Semi-Finalist

TALKS

Parallel Programming (Rust Malaysia)

• https://www.linkedin.com/posts/nixonyh_rust-parallel-programming-talkworkshop-april-activity-7187841

Beauty of Shaders Talk (APUGDC)

https://www.instagram.com/p/CtfxIu0vD3k/?img_index=2

TEDx - Simulating Millions of Particles in a Digital Twin (BATxAPU Week)

• https://twitter.com/AsiaPacificU/status/1534062323346083840

MEDIA & PRESS RELEASES

The Star (MDEC PDTI Outstanding Student Category 2023)

• https://www.thestar.com.my/news/education/2024/04/28/record-five-mdec-awards-for-apu

The Star (Gold Medal @ Invention Innovation Competition in Canada 2023)

• https://www.thestar.com.my/starpicks/2023/11/16/next-gen-game-development-for-next-gen-professionals

05 May 2025 (Nixon) Yi Heng Cheng · Résumé

Open Gov (Gold Medal @ 12th World Invention Creativity Olympic 2023)

• https://opengovasia.com/rescueai-smart-city-disaster-management/

APU News (Gold Medal @ 12th World Invention Creativity Olympic 2023)

• https://www.apu.edu.my/media/news/2939

APU News (1st Runner Up @ Intel AI Global Impact Festival 2023, 3rd Runner Up @ Petronas CHESS Symposium 2023)

• https://www.apu.edu.my/media/news/2911

APU News (Silver Medal @ ITEX 2023)

• https://www.apu.edu.my/media/news/2869