

Mario Galán Sobrino

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Education

Sheffield Hallam University

BACHELOR IN COMPUTER SCIENCE || WITH FIRST CLASS HONOURS || GPA 4.0

Sheffield, United Kingdom

Sep 2023 – May 2024

ESAT (Escuela de Arte y Tecnología)

HND IN COMPUTING - L5 || WITH GRADE DISTINCTION

Valencia, Spain

Oct 2020 – July 2023

Experience

FORMULA BACKSTAGE

FORMULA 1 TELEMETRY PROJECT

- Python programming using FastF1, Matplotlib, Tkinter...
- Graphs with detailed lap data (times, compound, speed, rmp, delta...)
- Ability to choose any tracks and session
- Ability to choose and display multiple drivers and laps simultaneously
- Interactive user interface using Tkinter and CustomTkinter

Valencia, Spain

June 2025 – Ongoing

PRIVATE PROGRAMMING LESSONS

SUBJECTS:

- Unreal Engine 5 (C++ & Blueprints)
- C++ programming
- OpenGL
- Algorithms and data containers
- Unity

Valencia, Spain

January 2025 – Ongoing

A NIGHT INDOORS

UNREAL ENGINE 5 PROJECT

- C++ and Blueprint programming using Unreal Engine 5
- The project has two AI models with their own behaviours and patterns
- Complex camera system and spatial sound with multiple attenuation ranges
- Version control using Github and project management using Trello

Valencia, Spain

August 2024 – January 2025

NOODLE: A BIG ADVENTURE - DEVELOPED ON PLAYSTATION®5

FANG-TASTIC GAMES

- C++ Programming with PlayStation®5 API and ImGui
- Graphic and tools programming
- Version control using Github and project management using Trello
- Nominated to Game Republic Student Showcase

Sheffield, United Kingdom

January 2024 – May 2024

WAVE ENGINE

BACHELOR'S DISSERTATION PROJECT

- C++ programming with OpenGL and multi-threading
- 3D procedural generation with Wave Function Collapse
- Data access, chunks and parallel programming optimizations
- Version control using Github and project management using Trello

Sheffield, United Kingdom

September 2023 – December 2023

INVICTA: THE NEXT QUEEN - AVAILABLE ON STEAM

DARK MOTH STUDIO

- C++ programming using Unreal Engine 4
- Gameplay and Artificial Intelligence programming
- Close work and communication with the design and art departments
- Version control using Perforce and project management using Trello
- Nominated to Rookie Awards 2024 | Rookie of the Year (Finalist)

Valencia, Spain

September 2022 – July 2023

PUZZLES ENGINE

HND FINAL YEAR PROJECT

- C++ programming with OpenGL
- Entity Component System and custom-built ImGui editor
- Deferred Rendering, normal and parallax mapping, blur post-process
- Multiple lighting types, cascade shadow mapping, cubemap
- Version control using Github and project management using Trello

Valencia, Spain

September 2022 – June 2023

ROBO SPACE RUNNER

HND PROJECT

- C# programming and game design using Unity
- Endless runner type game with multiple playable characters
- Local binary data saving system
- Unity ads technology implementation
- This project made me more experienced with Google Play's publishing process
- Version control using Plastic SCM and project management using Trello

Valencia, Spain

September 2021 – May 2022

MORE PROJECTS IN MY PORTFOLIO: <https://mariogalsob.github.io/>

PROJECTS DEVELOPED USING UE4, UE5, UNITY, C++, PYTHON AND GRAPHIC API'S LIKE OpenGL & DX12

Languages

English - Advanced (C1 - C2)

IELTS ACADEMIC CERTIFICATE. I HAVE LIVED FOR A YEAR IN THE UK WHERE I GOT TO IMPROVE MY SKILLS EVEN MORE.

I CURRENTLY TEACH PRIVATE LESSONS.

Japanese - Basic (N5 - N4)

French - Basic (A2)

Spanish - Native

Skills

Programming languages: C, C++, Python, C#, Kotlin, Java

Source control: GitHub, Perforce, Bitbucket, Plastic SCM

Game engines: Unreal Engine 4, Unreal Engine 5, Unity

Render: OpenGL, GLSL, DirectX12, HLSL, PS5 Graphic API

Miscellaneous: ImGui, SDL2, SQLite, MariaDB, Trello, MS Project, RapidJson, TinyOBJ

Personal Skills: Proactive, Hardworking, Reliable, Teamwork, Lateral thinking, Supportive, Diligent

Awards

Jun 2023

Transform Together Scholarship, A extremely competitive scholarship awarded by Sheffield Hallam University

James Richardson

(Director of Global Development & Partnerships)