

# Francesc Teruel

+34 646 74 54 50 | francesc.tr03@gmail.com | linkedin.com/in/francesc-teruel-rodriguez | github.com/francesctr4

## SUMMARY

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I'm a software engineer with a strong passion for game development, specializing in game engine architecture, graphics programming and performance optimization. Outside of games, I enjoy building cross-platform software, with careful attention to managing dependencies and delivering the highest quality.

## TECHNICAL SKILLS

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**Development Environments:** Visual Studio, VS Code, CLion

**Programming Languages:** C, C++, C#

**Cross-Platform Development:** CMake, vcpkg

**Graphics APIs:** OpenGL, Vulkan (+ GLSL)

**Game Engines:** Unity, Unreal, Proprietary

**Other Skills:** Git, SQL, Figma, Agile

## PROJECTS

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### Nous Engine

*Engine Programming*

July 2024 – July 2025

C++, SDL2, Vulkan, Multithreading, ...

- Bachelor's Thesis for the Video Game Design and Development degree
- Enhancing Software Performance through Multithreading and Parallel Programming Techniques
- Multithreaded Vulkan Game Engine using a thread-based Job System

### Alien Extraction

*Game Development*

Feb 2024 – June 2024

C++, SDL2, OpenGL, Bullet, Wwise...

- Game developed by 35 students in 4 months using Ymir Engine
- Managed the code department and the technology used as the Code Lead of the team
- Contributed on Resources, Shaders, Materials, Lighting and Performance

### Ymir Engine

*Engine Programming*

Sept 2023 – Jan 2024

C++, SDL2, OpenGL, Assimp, ImGui...

- Game Engine developed as a solo developer from scratch in C++
- Implemented low-level systems such as Resource Manager
- Features Shader Pipeline high-level system

## EXPERIENCE

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### Product Builder Intern

*Payfit*

23 Sept 2024 – 21 March 2025

Barcelona, Spain

- Low-Code, in-house software "JetLang", UX/UI, Payroll automation, JIRA

### Package Technical Operator

*Decathlon*

3 July 2023 – 31 Aug 2023 & 3 July 2024 – 31 Aug 2024

Sant Esteve Sesrovires, Spain

- Putaway, Picking, Sortation and Packing

## EDUCATION

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### Centre de la Imatge i la Tecnologia Multimèdia – CITM (UPC)

*University Degree in Video Game Design and Development*

Terrassa, Spain

Sept 2021 – July 2025

### INS Joan Oró

*Scientific and Technological Baccalaureate*

Martorell, Spain

Sept 2019 – June 2021