Pau Pedrejon

COMPUTER ENGINEERING STUDENT

Creative Computer Engineering student specialising in Software at UPC. Motivated to apply multidisciplinary expertise within collaborative teams to deliver impactful user experiences.

CONTACT

(+34) 689 063 590 | pau.pedrejon@gmail.com | linkedin.com/in/paupedrejon | Castelldefels, Barcelona

EDUCATION

Bachelor's degree in Computer Engineering — 2023-2027*
Universitat Politècnica de Barcelona (UPC)

Unity Essential Course — 2024
Universitat Politècnica de Barcelona (UPC)

Technological High-School Diploma — 2021-2023
Institut Tecnològic de Barcelona (ITB)

PROFESSIONAL SKILLS

- **Programming Languages:** C/C++, Java, Python, SQL, R.
- **Back-End:** Node.js, PostgreSQL.
- **Front-End:** React, Next.js, TailwindCSS, HTML/CSS.
- **Development:** Unreal Engine, Unity, Blender, Photoshop, Substance Painter, After Effects.
- **Version Control & Project Tools:** Git, Jira.
- **Hardware & 3D Printing:** FreeCAD, Cura, Proteus, Computer Systems.

PERSONAL SKILLS

Teamwork & work ethic | Self Learner | Highly Motivated | Adaptability | Class B Driver's License

PROJECT EXPERIENCE

Circus VR - Barcelona Game Jam 2024 — 2024
Universitat Politècnica de Barcelona (UPC)

- Collaborated in a multidisciplinary team during a 48-hour hackaton to deliver an immersive VR experience in Unreal Engine.
- Built a functional interactive system with scene props: trigger volumes, object manipulation, physics events and spatial audio, and assembled the whole level myself.

Virtual Reality Metaverse Demo — 2023
Institut Tecnològic de Barcelona (ITB)

- Constructed three interactive VR scenes with Blueprint scripting, Niagara VFX and MetaHuman animations.
- Integrated Oculus SDK, motion-controlled UI and physics-based locomotion for comfortable user experience.

Online Realistic Videogame - Solo Developer — 2020-2023

- Developed a fully playable 3D online multiplayer game in Unreal Engine through self-directed learning
- Implemented AI behavior trees, physics-based gameplay, custom net-code replication, and performance optimizations sustaining 120 FPS on mid-range hardware.

Custom 3D Printed Figure - Maker Project — 2020

- Adapted a complex 3D model, slicing it into printer-friendly parts, printing and post-processed to exhibition quality.

LANGUAGES

SPANISH: Native | CATALAN: Native | ENGLISH: B2 (First Certificate) | CHINESE: Basic

PORTFOLIO

www.paupedrejon.com | www.github.com/paupedrejon