

## Profile

Hard-working Software Engineer with strong C++ and mathematical skills with professional working experience within the games industry.

Good problem solving skills and great communication abilities enable him to work directly in a team with a high level of dedication. He is a strongly motivated person seeking for new challenges that will give him the opportunity to continue learning.

## Technical Skills

Programming Languages	Mathematics	Software Engineering	APIs & Libraries
<ul style="list-style-type: none"><li>• C</li><li>• C++</li><li>• C#</li><li>• Java</li><li>• SQL</li></ul>	<ul style="list-style-type: none"><li>• Linear Algebra</li><li>• 3D Geometry</li><li>• Trigonometry</li><li>• Calculus</li></ul>	<ul style="list-style-type: none"><li>• OOP</li><li>• Data Structures</li><li>• Design Patterns</li><li>• Networks</li><li>• Multithreading</li></ul>	<ul style="list-style-type: none"><li>• OpenGL</li><li>• GLSL</li><li>• SFML</li><li>• Box2D</li></ul>
Game Engines	IDEs	Source Control & Misc.	Web Development
<ul style="list-style-type: none"><li>• Unreal Engine 4</li><li>• Unity 3D</li></ul>	<ul style="list-style-type: none"><li>• Visual Studio</li><li>• Eclipse</li></ul>	<ul style="list-style-type: none"><li>• Perforce</li><li>• Github</li><li>• Jira</li></ul>	<ul style="list-style-type: none"><li>• HTML</li><li>• CSS</li><li>• JavaEE</li></ul>

## Employment

### Junior Gameplay Programmer

Splash Damage (London, UK)

*November 2015– Present*

Working on an unannounced **AAA title for PC, PS4 and Xbox One**.

### Junior Programmer

West Pier Studio (Brighton, UK)

*June 2014 – November 2015*

Worked on the development of new features for [DeckTools Inspire](#), studio's main project developed in Unity.

- Focused on the design and implementation of programming solutions for **procedural generation of content, gameplay, ui and tools**.
- Communicate and work efficiently within a team of programmers along with artists and designers to build a high-quality appealing game-like experience.
- Utilise Industry Tools such as Perforce and Jira as well as Agile Scrum development methodologies.
- Responsible for meeting deadlines for features to hit important milestone dates.

### IT Contract Management - Hub Europe

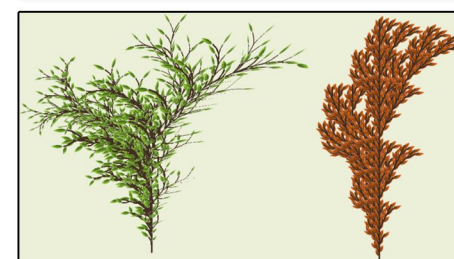
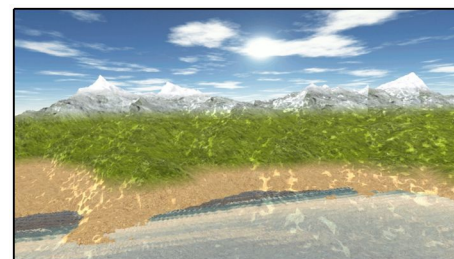
Telefónica Global Technology S.A (Madrid, Spain)

*January 2013 – June 2013*

Worked as a part of a team managing, transferring and developing IT contracts for the different Telefonica's European Branches.

## Projects

- **Procedural City Engine** developed in C++ and OpenGL ES 2.0. Worked as a part of a team generating the streets (both road and pavement meshes), their layout and intersections by applying a *mitre joint* technique. Also in charge of modifying an existing Collada builder to load and procedurally place several 3D models on the generated city.
- **Procedural Fractal Landscape generator** developed in C++ and OpenGL ES 2.0. Uses a stochastic algorithm along with several transformation functions such as smoothing, thermal erosion and perturbation. Custom designed shaders apply textures based on terrain height, create water reflection, waves simulation, and render the skybox.
- **L-System renderer** developed in C++ and OpenGL ES 2.0 that generates realistic 2D and 3D vegetation procedurally. Able to load different L-Systems from configuration files, step through its successive iterations and modify some of their parameters.
- **Procedural Dungeon Generator** tool developed in C++ and OpenGL ES 2.0 that generates randomly shaped and realistic 2D map dungeons using several techniques such as *Graphs*, *Minimum Spanning Trees*, *Separation Behaviours* and *Delaunay Triangulation*.
- **JeroQuest 3D**. Educational game developed with **Unity 3D** that facilitates the understanding of OOP and intelligent systems. By the use of *Reflection* the game is able to read at runtime the rules and behaviour of the characters previously coded by the users. **"E-learning" Award Winner - Partners EPI-GIJON.**



## Education

**2013 – 2014 MSc Computer Games and Entertainment (Distinction)**  
Goldsmiths University of London

**2007 – 2013 Computer Engineering Degree (First)**  
University of Oviedo (Spain)

## Interests

Games have been his passion since he got his console at the age of nine, not only about the fun and playable part but also impressed by the graphic techniques. He's interested in a wide range of games genres such as *Action-Adventure*, *Sports*, *Sandbox* and *Shooters*.

He is also passionate about music, playing the electric guitar since he was 15 and attending as many gigs as he can. Travelling, watching films and practising sport are some of the activities he loves to do in his spare time.

## References

**Mark Tregonning**  
Principal Gameplay Programmer  
Splash Damage  
✉ : mark.tregonning@splashdamage.com

**Dominic Jackson**  
Technical Director, West Pier Studio  
☎ : (+44) (0) 1273 206482  
✉ : dom@westpierstudio.com