

# JAMES ANSWER

## TECHNICAL ARTIST

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Over 2 decades of experience in the game industry, using code and art to empower artists and tackle challenging problems. A creative problem solver, having worked on many games that require new ways of working and thinking. Driving and executing custom technology and helping art teams hone their craft.

Broad range of technical and artistic roles covering many aspects of technical art, experience of full development cycles of multiple AAA titles.

Passionate about all things rendering, works closely with rendering teams to drive cutting edge technology appropriate to the game vision.

## EXPERIENCE

### Sony PlayStation LEAD ARTIST / LEAD TECHNICAL ARTIST

#### London Studio

2007 – present

#### Unannounced Urban Fantasy (PS5/PC)

- Built and co-led the art team on an ambitious AAA co-op title.
- Delivered proof of concept visuals for a stylised, premium look running in engine.
- Transitioned Soho engine to a new iteration, fully based around current generation technology including raytracing, SSD and micropolygon.
- Built and led technical art team to deliver new material and GPU particle editors and procedural systems in Houdini.

#### LEAD TECHNICAL ARTIST

#### Horizon: Call of the Mountain (PS5)

- Ported extensive material graph code from Horizon: Forbidden West (using Decima engine) to Unreal Engine, including rock, terrain and prop master materials, allowing for re-use between the two projects.
- Implemented improved character lighting models optimized for VR usage based upon technology developed in Blood & Truth.

#### Blood & Truth (PS4/PSVR)

- Delivered best-in-class visuals and technology in VR for a widely critically acclaimed game.
- Extensive character rendering improvements to Soho engine, which formed the basis of a Siggraph talk.
- Developed majority of shaders in the game.
- Creating epic city vistas as the backdrop to key moments, using a variety of methods including Houdini generated cityscapes, drone photography and projection mapping.

## PRINCIPAL TECHNICAL ARTIST

### PlayStation VR Worlds (PS4/PSVR)

- Working on PlayStation VR headsets from the earliest prototypes, defining new rules and best practices for art and technology in the new medium.
- Transitioned studio to physically based lighting, including implementation of lighting code in engine and training of art team in best practices.
- Met strict performance budgets, invented VR specific rendering techniques to improve performance.
- Developed majority of shader library for the game.
- Simplygon integration including pipeline to flatten in-house materials.

### Wonderbook – Book of Spells, Book of Potions, Diggs Nightcrawler (PS3)

- All London Studio Wonderbook games including the Harry Potter games Book of Spells and Book of Potions, and supported Diggs Nightcrawler.
- Working in a fast paced innovative environment to create fun and visually impressive experiences using the augmented reality book peripheral.
- Developed bespoke techniques such as ink bleed reveals, portals, filters and other visual tricks.

### EyePet / EyePet Move Edition (PS3)

- Developing rendering techniques to integrate high quality real time rendering augmented over live feed camera.
- Created character rig and character animation tooling.
- Contributed towards development of fur rendering and simulation.
- Many bespoke shaders for pet activities, and custom rendering for skin shading and ambient occlusion.

**Fuse Games**  
2004 – 2007

## LEAD ARTIST

### Metroid Prime Pinball (DS)

- Small team working using the Extreme Programming pair development methodology – learned a lot about agile and game design.
- Created all artwork in game along with three other artists (using 3ds Max).
- Developed tools to crop and pack sprites, and compress full screen animations.

Also worked on **Pokemon Pinball** prototype (unreleased) and **Active Health**.

**Minds Eye Productions**  
2002 – 2004

## LEAD TECHNICAL ARTIST

### Starsky and Hutch (PS2, XBOX, PC)

- Developed vertex lighting baking pipeline.
- Created various elements of Maya tooling to handle development of city environments.
- Remodelled existing vehicles and reworked shading.

### Starsky and Hutch 2 (unreleased)

- Modelled hero characters and cars.

**Cunning  
Developments**  
2000 – 2002

**ARTIST**  
**Endgame (PS2)**

- Modelled and lit environments.
- Developed Maya scripts.

## **EDUCATION**

**Bournemouth  
University**  
1997-2000

**BA COMPUTER VISUALISATION AND ANIMATION**

## **SKILLS**

Expert in:

- Technical leadership
- Shader authoring – from node graphs to low level shader code
- Optimisation + Profiling - Razor/Pix, education
- Autodesk Maya (MEL and Python)
- Photoshop

Knowledgeable in:

- Unreal Engine
- Houdini - Procedural modelling, VEX, Python
- Python / C#
- Substance Designer/Painter

Experience in:

- Autodesk 3ds Max

## **PATENTS**

**US 11,353,703 B2**  
2022

**Image Processing via Multi-sample Anti-aliasing**

## TALKS AND PUBLICATIONS

**SIGGRAPH**

4<sup>th</sup> August 2020

Character Rendering for VR in "Blood & Truth"

**Game Developers  
Conference**

7<sup>th</sup> March 2016

Fast and Flexible – Technical Art and Rendering for the Unknown

**Develop  
Conference**

14<sup>th</sup> July 2010

Pet Tricks: The Technical Art of EyePet