Maria Alejandra Montenegro

ThinkMariale@gmail.com - www.ThinkMariale.com USA: +1 (518) 860-2199

Purpose

Push the bounds of technology and experiences with creative development

Relevant Experience

Magic Leap Inc. - Lead User Interaction Engineer (Full time)

Present

Interactive Experiences and Gaming with the use of computer vision and AI in mix reality.

- lead prototype development for future mixed reality
- Develop prototypes for our deep learning team to test our algorithms
- Train deep models to enhance interactions and experiences

Yahoo! - Software Engineer (Full time)

2015-2016

May. 2012 - Present

Video team / android mobile development. Focused on live streaming algorithms.

Kinesis Studio - Lead Engineer (Internship)

Unity 3D developer of interactive floors with IR cameras (OpenCV) and Kinect 2.

- Developed blob detection and ID tracking algorithm, including when blobs merge together.
- Present in whole development cycle (beginning to end).

Summer 2014 End product were 2 installations in Las Vegas for client.

Interactive Developer (Freelance)

With the use of ARKit, OpenFrameworks, OpenGL, OpenCV and unique platforms like:

- Microsoft Kinect, Motion Capture, Oculus Rift, Leap Motion

Arduino, Touch Screens, Lighting

- Projection Mapping, Pepper's Ghost
- Mixed Reality and Virtual Reality Explorations

Skills

Frameworks: OpenFrameworks, Unity3D, ARKit, ARCore, React/React Native, PyTorch Programming Languages: C++, C#, C, Python, OpenCV, OpenGL, JavaScript, HTML5, CSS, SQL, PHP Hardware Inputs: Arduino, Microsoft Kinect (v1, v2, v3), Oculus Rift, Leap Motion, PS Move Design Programs: Figma, Photoshop, Illustrator, InDesign,

Released **Prototypes**

BeClose - Co-founder - www.BeClose.co

BM - Arduino - Lead Developer

Burning man lover, each year I create an LED installation unique for each burn

- multiple sensors ... lot of stuff

Remnant - ARKit - Lead Developer

An interactive dinner story told through mixed reality. Installed in an immersive one night experience in Copenhagen.

Palmistry Ball - Projection Mapping / Leap Motion - Lead Developer

An interactive game that lives in your hand. Uses Leap Motion to track the hand and 3D projection mapping to make the users had the canvas.

Marioneta - Kinect 2 experience - Lead Developer

An interactive puppet gesture recognition exhibit for the Children Museum of Pittsburgh. Research paper accepted by IEEE VR15.

Maze of Hearts: Kinect game - take pieces of heart back to robot's heart - human shadow.

- Experimental Games Finalist GDC 2014

The Last Egg: A six PS Move multiplayer team game

- IndieCade Finalist 2014

Education

Carnegie Mellon University, Entertainment Technology Center (ETC), Pittsburgh, PA Master of Entertainment Technology

GPA: 3.74/4.0

Rensselaer Polytechnic Institute, Troy, NY

Dec. 2012

May 2015

Dual Degree: B.S. Computer Science and B.S. Electronic Media, Art & Communication GPA: 3.5/4.0

Activities Publications

Published Paper: Marioneta Virtual Puppeteer Experience, VR 2015 IEEE Mastering Leap Motion Reviewer - Packtpub. World Traveler and Cultural Explorer.