VIVEK VIDYASAGARAN

Programmer | Game Designer

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EDUCATION | CARNEGIE MELLON UNIVERSITY

2014 - 2016

Masters in Entertainment Technology

VELLORE INSTITUTE OF TECHNOLOGY

2010 - 2014

Bachelor of Technology in Computer Science and Engineering

AREAS OF INTEREST Computer Graphics **High Performance Computing** Gameplay Programming Game Design

SKILLS C++, Unity, C#, Python, CUDA

INTERNSHIPS | GOOGLE SUMMER OF CODE 2014

INTERNATIONAL NEUROINFORMATICS COORDINATION FACILITY

SUMMER 2014

Worked on a Neural Circuit Simulator called MOOSE. Implemented a parallel algorithm for simulating current flow between different neurons in a brain.

MOBILE GAME TO TEACH RELATIVISTIC PHYSICS

CMU ETC, PITTSBURGH

SUMMER 2015 - CURRENT

Creating a mobile educational game that gives players an intuitive understanding of the effects of relativistic physics like space contraction and time dilation. Uses the mobile phone's accelerometer and gyroscope for velocity tracking

PROJECTS | GOTAN: MIXED REALITY EXPERIENCE, CMU ETC, SILICON VALLEY

FALL 2015

A Minecraft style world-in-your room concept using Google's Project Tango to immerse players into a virtual representation of the real world and play through a simple game. Uses Project Tango's depth sensing to generate a voxel world corresponding to the real world.

INTERACTIVE CHILDREN'S EXHIBIT, CMU ETC, PITTSBURGH

WINTER 2015

An interactive exhibit to be installed in a children's museum that uses a top-down projection system and a Kinect sensor to get kids to exercise through play. Did part of the gameplay programming and worked on the Kinect sensing technology.

THE BEAT, THE STEP AND THE COWBOYS, CMU ETC, PITTSBURGH

WINTER 2015

A fast paced turn-based rhythm game where two players compete with each other, each trying to outwit their opponent. Featured in Rock Paper Shotgun.

BUILDING VIRTUAL WORLDS, CMU ETC, PITTSBURGH

FALL 2014

Into the Dark - An Oculus Rift experience where guests play the role of a bat flying through a cave and trying to catch bugs. Uses custom shaders and a unique sound input system simulating echolocation.

Eagle King - An exploration game where players control an eagle and explore a forest. Made using Microsoft Kinect. Implemented fluid bird motion with Kinect and enemy Al.