Kyle Patrick Salitrik

ADDRESS

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Work Experience

The Pennsylvania State University

University Park, PA, USA

MAY 2017 - PRESENT

Undergraduate Research Intern

- Programming | Python, Keras, Tensorflow, CNTK
 - Developed Python scripts for automating and randomizing software tests
 - Trimmed unnecessary libraries from deployed software
 - Prototyped Logistic and Linear regression Machine Learning Algorithms in Matlab
 - Used Keras with Tensorflow & CNTK to prototype Neural Networks

Advanced Acoustic Concepts

Uniontown, PA, USA

MAR 2015 - JAN 2017

ELECTROMECHANICAL ENGINEER

- Software & Hardware Engineering | Test Automation, Arduino, Python, BASH, AutoCAD Electrical
 - · Utilized BASH scripts and Knoppix to automate server tests by printing status information to a built-in LCD panel
 - · Automated mprime CPU stress tests via SSH using Python scripts to deploy the service and collect logs
 - Designed test fixtures using Arduino microcontrollers to automate hardware testing of CCAs using bitwise control of ICs
 - Created Arduino array to deliver real-time, self-correcting PWM pulse generation by polling output
- Mechanical Engineering | Solidworks, Inventor
 - Developed adaptable 3-axis vibration test fixture for up to 2U, 30-inch servers and frequency range up to 2kHz
 - Created vibration test fixture to accommodate various sizes of Hammond enclosures for low-frequency MIL-SPEC testing
 - · Designed modular truss structure for supporting mobile winches on ships with the goal of being hot-swappable for missions

The Pennsylvania State University

University Park, PA, USA

AUG 2012 - DEC 2012

TEACHING INTERN (STATICS)

- Held office hours to help students comprehend subject matter and complete homework
- Assisted with creation of exam problems and proctored exams

Projects _____

Parallax (Link: Development Log)

Personal Project

UNREAL ENGINE

• Parallax was my first attempt into true game design and a great learning experience. The end product is the framework for a 3D side-

scrolling cover shooter. The game starts in a side-scrolling view that provides greater visibility but lacks accuracy in aiming. Players may switch to an over-the-shoulder 3rd person shooter view in order to accurately aim, at the sacrifice of how far in front of themselves they can see. Along with typical side-scrolling elements, the 3rd dimension of depth into the screen adds another element of concern for the player.

Oculus Drift HackYSU

C#, UNITY FEB 2017

· OculusDrift was an experiment in audio-visual entrainment employing Unity (C#) and the Oculus Rift. The purpose of the project was to create a relaxing environment by using binaural audio and simulating the user floating through a star field.

Education

The Pennsylvania State University

University Park, PA, USA

B.S. IN ENGINEERING SCIENCE & COMPUTATIONAL DATA SCIENCE

Expected: Aug. 2019

- Minors: Engineering Mechanics, Mathematics
- Thesis: Effects of Print Orientation, Fill Density and Size on 3D Printed Structures

Professional Memberships _____

IEEE	Institute of Electrical and Electronics Engineers, Computer Society	2017
ACM	Association for Computing Machinery	2017
IGDA	International Game Developers Association	2017
ASME	The American Society of Mechanical Engineers	2017