

# Ryan Theriot

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## Objective

- To obtain a position in the field of virtual and augmented reality that will allow me to pursue my interests of computer graphics, data visualization, and human-computer interaction,

## Education

### **BS COMPUTER SCIENCE | SUMMER 2017 | UNIVERSITY OF HAWAII AT MANOA**

- Major: Computer Science
- Related coursework: Virtual and Augmented Reality, Software Engineering, Algorithms

## Skills & Abilities

### **PROGRAMMING LANGUAGES**

- C#, C++, Java, Javascript, Cg shader

### **TECHNOLOGY**

- Unity3D, Unreal, Git, NodeJS, Visual Studio, Windows, Linux

### **PROJECTS**

- A vertex and fragment shader that allows users of Unity3D to give objects a fur like appearance
- An extension of EZGraphics called EZ3D that lets users learn the basics of the 3D rendering pipeline to allow an easier transition to a more professional API like OpenGL.

## Professional Experience

### **RESEARCH ASSISTANT | LAVA | 2016-PRESENT**

- Currently apart of HAVEN, a project to visualize a way of analyzing and communicating the tradeoffs and interdependencies of resource deployment to achieve 100% renewable energy for Hawaii.
- Designed a point cloud loader and shader for LAVA's Destiny Class Virtual Environment.
- Designed a Unity3D Virtual Reality API for LAVA's Destiny Class Virtual Environment
- Presented a paper at Electronic Imaging 2017 about a novel GPU based approach to mitigate Crosstalk.
- Designed SatWatch, an HTC Vive Satellite Situational Awareness application. Presented the application at the Advanced Maui Optical and Space Surveillance Technologies Conference 2016.

### **AVIONIC ELECTRICAL TECHNICAN | UNITED STATES COAST GUARD | 2007-2012**

- Operated, inspected, serviced, maintained, and repaired avionics systems.
- Performed aircraft ground handling, aircraft inspections, and aviation administrative duties.
- In flight duties of Navigator and Radio Operator.
- Received the USCG Commandant's Letter of Commendation – Awarded for extraordinary performance as a radio operator on a HC-130H aircraft during a search and rescue case for an overdue sailing vessel.