Mitchell Waibel

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Education

Colorado School of Mines

M.S. IN COMPUTER SCIENCE

GPA: 4.0

• Expected graduation: May 2019

Colorado School of Mines

B.S. IN ENGINEERING PHYSICS

- Graduated: May 2017
- · Graduated Cum Laude
- National Dean's List 4 Semesters

Technical Skills

Advanced C++, C, Linux Terminal,

Python, Java, ŁTFX

Intermediate OpenGL, MatLab,

Android Application

General Public speaking,

technical writing

Employment

References upon request

Ricoh **IMAGING AND COLOR SCIENCE INTERN** Boulder, Colorado

May 2018 — August 2018

- · Developed the backend software to capture images in real-time (tested up to 3.6 GB/s) and send it directly to the GPU using C++ and OpenGL.
- GPA: 3.56 Created a GUI in Qt Creator to control the camera and paper drum to save images of various size or stream them to the monitor in real-time.

SEAKR Engineering

SOFTWARE ENGINEERING INTERN

Centennial, Colorado

May 2017 — August 2017

- Ported a proprietary C++ software package from VxWorks to Linux. The software also moved to a new architecture, which required more rewritten code.
- Installed PetaLinux on the flash memory of a MicroZed development board.

MasterCraft Truck Equipment, Inc.

Englewood, Colorado

Summers, 2015 - 2016

WAREHOUSE WORKER

- · Learned about small scale installation processes.
- Received and processed 2–3 large shipments per day.
- Delivered the finished vehicle to the customer.

Coursework _

GRADUATE

Computer Vision

Simulation

Applied Algorithms

Theory of Computation

Advanced Computer Architecture

Game Theory and Networks

Undergraduate

Senior Design

Operating Systems

Algorithms

Data Structures

Software Engineering

Computer Graphics

Discrete Mathematics

Database Management

Computer Organization

Mobile Application Development

Game Development

Team Project Experience ____

Mobile Application Development

OPENGL ES DEVELOPER

Jan 2018 — May 2018

We worked through the entire process of creating an Android application from scratch using proper design with application fragments and activities. Our app is a Dungeons and Dragons character sheet which allows the user to keep track of their players stats. I focused on the dice-roller that the player can use to roll realistic-looking dice using OpenGL ES.

Senior Design

C++ PROGRAMMER

August 2016 — May 2017

Lightning creates atmospheric events in the ionosphere, called Elves, that can be observed at the Pierre Auger Observatory in Argentina. I helped develop a set of modules to work with existing modules that take weighted photon position data from a simulation of an Elve and simulate what that would look like in the detectors at the observatory.

Extracurricular Activity

C++ Asteroids Clone

PROGRAMMER AND DEVELOPER

May 2017 - PRESENT

In my spare time, I use the SFML library in C++ to build a clone of Asteroids from scratch. Most of the gameplay is implemented, but I'm still working on the menu and other systems. This project as it is can be found on my GitHub page under Corvus Praedo.