Mitchell Waibel

GRADUATE STUDENT · COMPUTER SCIENCE

18274 W. 58th Pl. #40 Golden, Colorado 80403

□ (303)590-8119 | ■ mitchell.waibel@gmail.com | □ mdub555 | □ mitchell-waibel

Education

Colorado School of Mines

M.S. IN COMPUTER SCIENCE

GPA: 4.0

• Expected graduation: May 2018

Colorado School of Mines

B.S. IN ENGINEERING PHYSICS

GPA: 3.56

- Graduated: May 2017
- · Graduated Cum Laude
- National Dean's List 4 Semesters
- Honor Roll 2 Semesters

Technical Skills

Advanced C++, C, Linux Terminal,

Java, Python, ŁTEX, LISP, JavaScript, HTML5,

Android Application

Intermediate OpenGL, Mathematica,

MIPS Assembly

Basic Arduino, PostgreSQL

Analog & Digital Circuits,

LabView, SolidWorks

General Public speaking,

technical writing,

independent research

Tools Microsoft Excel,

Word, and PowerPoint

Coursework

GRADUATE

Advanced Computer Architecture Game Theory and Networks

Theory of Computation

UNDERGRADUATE

Senior Design

Operating Systems

Algorithms

Data Structures

Software Engineering

Computer Graphics

Discrete Mathematics

Database Management

Computer Organization

Mobile Application Development

Game Development

Employment _____

SEAKR Engineering

Centennial, Colorado

SOFTWARE ENGINEERING INTERN

May 2017 - August 2017

- Ported a proprietary 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 shipments per day
- Delivered the finished vehicle to the customer

Team Project Experience

Theory of Computation

Теам Мемвек

We spent three weeks developing and coding a LISP program that takes in input, potentially a regular expression, and converts it to a Discrete Event System and which can then be solved with a route through the Discrete Event System using graph traversal methods.

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.

Physics Field Session

STUDEN

Six week long session where we learn hands on skills such as working precision machinery in a shop, handling different types of vacuums, designing analog circuits, construction and operation of lasers, and how to program in several different languages.

Extracurricular Activity

Grow with Google Challenge Scholarship

SCHOLARSHIP RECIPIENT

January 2018 - PRESENT

I was offered a scholarship for front-end web development that allows me to learn website development with JavaScript and HTML5. This challenge scholarship can lead to a longer course of the same subject.

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.