7116 Heatherwood Dr. Reno, NV 89523 (775)250-8441

## Education

University of Nevada, Reno

Reno, NV

Master of Science in Computer Science and Engineering - GPA 3.5

Spring 2013

- Course Work: Optimal Control and Reinforcement Learning for Systems with Dynamics, Advanced Software Project Management and Development, Human-Computer Interaction, Network Architectures and Economics, Computer Vision, GPU Parallel Computing, Excitable Cells Modeling
- Thesis: A Python Library for Ion Channel Modeling

University of Nevada, Reno

Reno, NV

Bachelor of Science in Computer and Information Engineering

Fall 2010

- Senior Project: Real-time audio processing on Xilinx FPGA with graphical user interface

Växjö University

Växjö, Sweden

Semester-long Study Abroad Program

Spring 2009

## Experience

Hamilton Company

Reno, NV

Software Engineer

August 2012 - Present

- Worked on multi-disciplinary engineering teams to design and develop software solutions for internal and external use
- Implemented several graphical applications for robotics calibration and verification using C#, .NET, and WPF
- Revolutionized the build and deplopyment process for a large C++ project
- Explored several ideas for embedding Python into our legacy products to give them a new breath of life

Self-Employed

Reno, NV

Freelance Embedded Software Developer

August 2013 - Present

- Developed embedded software solutions for industrial heating control systems

Brain Computation Lab, University of Nevada, Reno

Reno, NV

Graduate Research Assistant

Fall 2010 - Fall 2012

- Researched and implemented new emotional speech recognition techniques using Python, Matlab, C, and C++
- Implemented sound and video processing components and integrated them into virtual neurorobotics scenarios
- Assisted in authoring, editing, and reviewing journal and conference papers
- Developed proficiency in finding, compiling, and using a wide variety of software libraries under Linux
- Provided programming, computer, and moral support to other lab members

## Evolutionary Computing Systems Lab, University of Nevada

Reno, NV

Spring 2010 - Fall 2010

- $Under graduate\ Research\ Assistant$ 
  - Maintained and improved Python 3D game engine
    Implemented new sky, water, and boat wake effects for 3D game engine
  - Wrote several Python scripts to convert between different 3D model formats

## Skills

Languages: C++, C#, Python, Matlab, LATEX

**Technologies:** Visual Studio, GCC, Git, Amazon Web Services, Django

Other: Proficient in developing, running, and debugging software under Debian Linux and Windows; Experience developing parallel C++ applications using Open MPI; Some experience with embedded Linux development; User-interface design experience using QT; Experience with Boost C++ libraries including Python; TCP/IP programming experience; Knowledge of network architectures and protocols; Experience with Git Version Control; Exposure to software project management techniques, including Agile Principles

Interests: Aviation and Aerospace Technology, History of Space Flight Technology, Cosmology, Robotics, Music Performance, Snowboarding, Scuba, Travel, Beer, Cheese, Startups