Jessica Smith | Computer Scientist

1390 Whisper Rock Way − Reno, NV, 89523 − USA

(775) 233 0112 • ☑ jsmith@nevada.unr.edu • ☑ www.cse.unr.edu/~jesmith

Education

University of Nevada, RenoCurrent GPA: 4.0MS Computer Science and Engineering2014–May 2016(Expected)

University of Nevada, Reno

BS Computer Science and Engineering

Cumulative GPA: 3.4 2010–2014

Skills

Comfortable		Familiar	Familiar		
C/C++PythonCUDA	OpenCVSQLGit	HTML/CSSLaTeXOpenGL	Robot Operating System (ROS)		

Work Experience

Industry.

Flight Research Aerospace, Inc.

Reno, NV

Part-Time Firmware Engineer

Dec. 2015- Summer 2016

Implement middleware layer between local hardware and NASA's Distributed Airspace Simulator. Assist in building and implementing the local simulation hardware and software.

Bally Technologies Reno, NV

QA Intern/Development Intern/Firmware Engineer I

2012-2014

QA Intern: Assist in the testing of games and systems. Development Intern/Firmware Engineer: Develop and maintain code for slot machines, build systems, and train new hires.

University.....

University of Nevada, Reno

Research Assistant 2015–2016

Develop a comprehensive forest fire simulator that will work in conjunction with the terrain models used in the Virtual Watershed Project. Implement varying models for fire spread and create a comprehensive fire simulation system.

National Science Foundation

NSF GK-12 E-Fellow

2014-2015

Work 10-15 hours a week in a high school classroom to bring STEM topics into 9-12 grade curriculum. Develop lesson plans to teach inquiry-based learning and critical thinking. Apply for grant funding for classroom labs/projects. Participate in field trips to remote sites.

• \$2217.55 in funding awarded for classroom projects;

Relevant Experience

Sample Return Robot

University of Nevada, Reno

2013-2014

Develop a robotic system that would search for and retrieve yellow tennis balls from a known hallway environment as a part of UNR's Senior Project. Design navigation system to localize within environment and navigate to home base with discovered tennis ball.

Temporary Lecturer and Recitation Leader

University of Nevada. Reno

2013-2016

Cover lectures in theoretical computer science courses for professors when they are unavailable. Courses: Automata and Discrete Mathematics.

Master Thesis

Title: Forest Fire Simulation on the GPU

Advisor: Dr. Frederick Harris Jr.

Description: Forest fire simulation requires a large amount of data processing to operate. Current forest fires do not operate in real-time, making them less useful for real-world fire fighting situations. The goal of this work is to implement a full-scale forest fire simulator that operates in a near real time scale. The propagation method for this simulator is processed using the high performance parallel programming language CUDA and the rest of the simulator is written in C++.