

FIRST LAST

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WORK EXPERIENCE:

Software Engineer

June 2012 - present

Bently Nevada, GE Measurement & Control in Minden, Nevada

A world-leader in machinery protection and condition monitoring in the oil and gas and power generation industries

- Tested mission-critical firmware and software on a new product development team
- Developed and maintained automated tests in **C#** for regression testing
- Practiced Agile and Scrum in 2 week sprints with 20 other developers

Software Engineer

December 2011 – May 2012

AggieAir Flying Circus, Utah Water Research Laboratory, Utah State University in Logan, Utah

Service center that provides high resolution, multispectral aerial imagery using small, unmanned aerial systems

- Designed ground control software in **Java** for mission planning, execution, and data post-processing

Undergraduate Research Assistant

September 2010 – December 2011

Center for Self-Organizing and Intelligent Systems, Utah State University in Logan, Utah

A multi-disciplinary research group that develops real-time, integrated, autonomous systems

- Researched **computer vision** and its application in small, low-cost unmanned aerial systems
- Developed AggieID, an on-board **target recognition system**, using **C++** and **OpenCV**
AggieID runs on an embedded Linux computer in a very small airplane, processing images while airborne.
- Won 1st place in the 2011 AUVSI SUAS Competition with AggieID
- Researched sense-and-avoid and horizon-detection technologies for NASA Grant NNX11AO77A
"Airworthiness Techniques and Flight Evaluation for Integrating Low Cost Personal Remote Sensing UAV in the National Airspace System"

Software Tester

October 2010 – December 2011

Space Dynamics Laboratory, Utah State University Research Foundation in Logan, Utah

A University Affiliated Research Center specializing in defense and small satellite technology

- Tested software and firmware for a defense project
- Maintained **Doxygen**-formatted documentation for source code of project
- **Git** and **Trac** used to coordinate efforts among the developers and testers

Other Research

Summer 2010, Summer 2011

- Researched **peer-to-peer botnets** and computer vision in Utah State University's Research Experiences for Undergraduates program
- Funded by National Science Foundation grants

EDUCATION:

Bachelor of Science, Computer Science

Utah State University, Logan, UT

May 2012

- Digital Systems emphasis
- Dean's List

VOLUNTEERING:

- Served as a full-time volunteer in Alabama from January 2007 to February 2009
- Built houses for Habitat for Humanity in Scottsboro, Alabama in 2008
- Earned Eagle Scout Award, 2001, Boy Scouts of America
- Introduced elementary school children to Computer Science through Utah State University's Outreach Program in Spring 2010

SKILLS:

C/C++

Test Automation
Bash Scripting

C#

Java
Git / SVN / TFS

Python

Matlab
Agile / Scrum