

# KEITH M. KNAPP

## Quality Assurance Engineer

I have been a Quality Assurance/Test Engineer my entire Professional career. I focus on delivering valuable quality assurance and prioritizing issues that facilitate the best user experience. I have a solid history of discovering errors, resolving defects, and ensuring client expectations are met with high-quality software solutions.

## WORK EXPERIENCE

**Simple Energy** [April 2014 - January 2015]

### Quality Assurance Engineer

- Contributed subject matter expertise in product design reviews to provide input on functional requirements, product designs, or potential problems.
  - Developed process and rigor, based on my quality assurance subject matter expertise, to Simple Energy's product design reviews that resulted in a reduction of first pass test failures by over 50% in my first 6 months on the job.
  - Planned test schedules and strategies in accordance with project scope and delivery dates.
  - Documented software defects, using a bug tracking system and report defects to software developers.
  - Helped develop an Automated testing framework using py.test and Selenium Webdriver. This framework integrated directly with our stack and maximized test automation efficacy
  - Planned and executed deployments to test, pre-production and production environments.
- Proficient in new feature and regression testing.

**Gaming Laboratories International** [August 2006 - April 2014]

### Test Engineer II

- Extensive Black Box testing on multiple gaming platforms and manufacturers.
- Created custom testing tools and scripts that significantly increased productivity and reduced testing duration.
- Designed automated testing procedures for regression testing and repetitive tasks
- Heavily involved in new hire training process and other staff as needed
- Troubleshooting and problem solving on a daily basis
- Worked in foreign offices in the Netherlands and Italy for 1+ years as well as grew up in Germany

**Partnership for Engineering Education in the Rockies** [Summer 2006]

- Assisted with teaching and mentoring for High School students to increase enthusiasm and awareness for electrical and computer engineering
- Collaborated (with several other people) to plan and execute activities for students over a 6-week period

## PUBLICATIONS

"Heuristics for Robust Resource Allocation of Satellite Weather Data Processing on a Heterogeneous Parallel System", IEEE Transactions on Parallel & Distributed Systems, vol.22, no. 11, pp. 1780-1787, November 2011, doi:10.1109/TPDS.2011.44

## SKILLS

Black Box Testing	<div><div></div></div>
White Box Testing	<div><div></div></div>
Regression Testing	<div><div></div></div>
Functional Testing	<div><div></div></div>
Smoke Testing	<div><div></div></div>
Test Case Design	<div><div></div></div>
Automated Framework Design	<div><div></div></div>
VBA Programming	<div><div></div></div>
Assembly Language	<div><div></div></div>
Digital Systems Design	<div><div></div></div>
Manual Web Testing	<div><div></div></div>
Test Automation	<div><div></div></div>
Selenium	<div><div></div></div>
py.test	<div><div></div></div>
Python	<div><div></div></div>
Full Stack Testing	<div><div></div></div>
MySQL	<div><div></div></div>
Java	<div><div></div></div>
German	<div><div></div></div>
HTML/CSS	<div><div></div></div>
C/C++	<div><div></div></div>

## EDUCATION

**Bachelors of Science** [2006]

**Electrical and Computer Engineering**

Colorado State University