

# Kari Stromsland

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## Professional Summary & Objectives

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Software engineer eager to use my skills to improve software products and living environments.

## Core Qualifications and Skills

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|-----------------------------|------------------------|----------------------|
| » Customer-oriented         | » Results-oriented     | » Self-starter       |
| » Team player               | » Work independently   | » Project Management |
| » Software development      | » Software design      | » Software test      |
| » Software deployment       | » Software maintenance | » Documentation      |
| » <b>Software Languages</b> |                        |                      |
| » Android                   | » Java/C++             | » Python             |
| » Sqlite3/MongoDB/Json      | » Git                  | » Linux              |

## Professional Experience

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06/2001 -  
07/2015

### The Boeing Company

#### Engineer/Scientist

- » Designed, developed, tested and deployed an enhancement to an in-house simulation tool, written in Fortran and ported to Exceed using Motif and C.
- » Took lead in applying numeric computational methods to simulate large scale electromagnetic environments.
- » Facilitated regular team work sessions to answer questions, promote discussion and describe in detail the methods of computational analysis being used for large scale electromagnetic simulations in support of program needs.
- » Served as mentor to colleagues as they worked to incorporate application of numeric computational methods to emerging problems.
- » Interfaced with multi-disciplinary customers to promote confidence that the simulations were representative of the environment under consideration.
- » Served as focal for planning, scheduling and budgeting of numerical computation work statements.
- » Co-researched and developed wire shielding optimization methods through computational analysis improvements and validation.
- » Co-researched and developed multi-disciplinary design optimization methods for solving aircraft lightning problems with an emphasis on structures, electromagnetic effects and electrical design.
- » Developed test plans, coordinated test article and test fixture builds, coordinated tests, interpreted results, and wrote test reports on time and within budget.

#### Patents

- » Patent Nos. 7,236,343 7,373,814 7,596,997 8,410,784 8,900,496

## Education

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1984

- » BS Architectural Studies, University of Illinois Champaign-Urbana
- » Course on using Fortran to draw simple 3D shapes

2001	» BS Electrical and Electronic Engineering, Seattle University
	» Courses on logic, Java and C++ programming
	» Verification and Validation in Computational Simulation AIAA
Job related coursework	» Intro to PERL
09/2015 - present	» <b>Software Engineering Self Study</b>
	» Completed Codecademy roster (Ruby, Rails, HTML, CSS, Python, JScript, JQuery, Git, Linux)
	» Designed, developed, tested a Demo Ruby on Rails Sqlite3 Web App to score events at dog scentwork trials, deployed on Heroku and Amazon Web Services using Beanstalk. The Web App uses HTML5/CSS3 and Bootstrap and JQuery libraries.
	» Designed, developed and tested the same Demo Web App using Go (golang) and MongoDB deployed on Amazon Web Services using EC2.
	» Android self study (thru Udacity Coursework)
	» Designed, tested and developed the same Demo App as an Android App to proto demo.
	» Cloud Computing Concepts, Part 1, by University of Illinois at Urbana-Champaign on Coursera. Certificate earned on September 23, 2017
	» Cloud Computing Concepts, Part 2, by University of Illinois at Urbana-Champaign on Coursera. Certificate earned on November 4, 2017

## Personal Projects

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04/2016 <a href="http://scorebyanose.org">http://scorebyanose.org</a>	<b>Demo Web App ScoreSheet (Ruby on Rails &amp; Sqlite3)</b> Based upon the concept of running, tabulating, scoring and storing data for canine scentwork trials, consisting of various divisions and elements, in real time.
06/2016 <a href="http://goscorebyanose.net:8080">http://goscorebyanose.net:8080</a>	<b>Demo Web App ScoreSheet (Go &amp; MongoDB)</b> Concept as above.