

# Jason Karuza

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## OBJECTIVE

Seeking positions to exercise leadership, creativity, and design in the software engineering industry

## SPECIAL SKILLS

Languages: C/C++, JAVA, Perl/CGI, PHP, ASP/VB, Labview, LISP, .NET, HTML, CSS, JS, SQL, UML, XML

Tools and Platforms: MS Visual Studio, Eclipse, JBuilder, Vim, Windows, UNIX/LINUX/CYGWIN

Other Software: MS Office, Photoshop/Paint .NET, Dreamweaver, Rational Rose, Apache, CORE (SE tool)

## EXPERIENCE

SYSTEMS ENGINEER III – Northrop Grumman Aerospace Systems, El Segundo, CA 03/09 – Present

- Systems Engineering/Integration and Test (SEIT) lead for Unmanned Combat Air System's (UCAS) Autonomous Aerial Refueling (AAR) Surrogate Demonstration program
- Multi-Contractor Contractual Account Manager (CAM) for AFRL AAR program System Architecture and Design
- Software Design lead and CAM for AFRL AAR program (includes dispersed Boeing and Lockheed Martin software teams)

SOFTWARE ENGINEER III – Northrop Grumman Space Technology, Redondo Beach, CA 10/07 – 02/09

- Create UMATS Capacity Web Tool in .NET and SQL Server. Dynamic charts. DB management and conversion.
- Create eBRI web tool with ASP, SQL Server, and Javascript. Draw dynamic charts and spreadsheets with VB.
- Support PMI to document standard algorithm usage internal to the company.
- Create and run spacecraft command benchmarking test using Python and Java (DSATS)
- Create two new communication links for a spacecraft test system written in Labview (EGSE)

SOFTWARE ENGINEER II – Northrop Grumman Mission Systems, Carson, CA 2/06 – 9/07

- Design and develop C++ MFC and QT GUI Applications. Architect network planning GUI software
- Design using UML and Rational Rose. Version control with Clearcase
- JAVA GUI modification. Interaction between JAVA and C/C++ through DLL and nativecode

SOFTWARE ENGINEER INTERN – Northrop Grumman Mission Systems, Manhattan Beach, CA 7/05 – 12/05

- Develop Perl scripts to verify existence of items in source code tree
- Debug test procedures written in C and run test procedures using proprietary tools

DATABASE ENGINEER INTERN – Teradata, A Division of NCR in El Segundo, CA, 6/04 – 12/04

- Develop an OOP design and implementation for Data Structures to be sent between a client and server database in Perl. Classes generated by parsing through output of a script and inherit from a DataStructure base-class
- Create classes simulating basic C primitive types (int, array, union, etc.)

## EDUCATION

California Institute of Technology, Pasadena  
Systems Engineering Certification, June 2010

University of California, Los Angeles

Master of Science, Computer Science December 2005 GPA: 3.771, Magna Cum Laude

Related Coursework: Embedded Systems, Advanced OS, Computer Security, Distributed Systems

Bachelor of Science, Computer Science June 2004 GPA: 3.656 Overall / 3.707 Major, Cum Laude

Related Coursework: OS Design, Compiler Design, Networking, Databases, Automata Theory, Algorithms

## PERSONAL PROJECTS COMPLETED

Web Design - Created and edited numerous websites (List2Text.com, ComputerJourney.com, LACRSA.com, Easy2Pass.com)

- PHP and CGI features such as recursive media display, personal search engine, poll and quiz scripts, personal profile feature for visitors, guestbook/comment support for BLOG entries, a shopping list via text message service, makeup database, mailing list with mail server, PDF generation with Perl, Wordpress modification

Applications – GParkS – a Windows Mobile 6.1 equivalent of "Dude, Where's my car?" application for iPhone. Uses GPS API.

Networking (UCLA) – A client/server interface using TCP and UDP to establish a hotel reservation service in C and C++

**LEADERSHIP EXPERIENCE** – SEIT Lead and Preferred System Concept Lead (NGC 02/10 – Present), Software IPT Lead (NGC 07/09 – 04/10), Santa Monica, Pacific Palisades, and Venice HS Drumline Instructor (03/09 – Present) GUI Team Lead in absence of official lead (NGC 10/06 – 2/07), Teaching Assistant (UCLA 9/04 – 12/05), Beverly Hills HS Drumline Instructor (9/03 – 6/08), UCLA Drumline Section Leader (9/02 – 6/04)

## PROFESSIONAL ORGANIZATIONS AND ACCOMPLISHMENTS

Member of IEEE and ACM

Author of educational book about better computing practices for the average user: [www.computerjourney.com](http://www.computerjourney.com)

Teach West LA and El Camino College Extension courses on better computer use, Social Networks, MS Word and Excel

Published an article in the IT Solutions Journal on experiences with an open source project (RockBox)

Professional gadget blogger for [Obsessable.com](http://Obsessable.com)