

Samuel Reynolds
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12620 N. Forest Canyon Drive
Parker, CO 80138
References available on request

SKILLS

Excellent written and oral communications skills
Full software development lifecycle

Software Engineering and Programming

Object oriented analysis and design
Object oriented programming
Object oriented modeling and simulation
Software prototyping, construction, and refactoring
Requirements analysis
Software architect
Relational database and data modeling
User interface design
UML, SQL
C++
Python
UserTalk (UserLand Frontier)
Korn shell (Unix)
Some Java and Perl
Some CORBA (Orbix) exposure
MySQL, Oracle
Rational Rose and Together/C++ design tools
DOORS requirements management
Visio

Web Development

Website design, implementation, and maintenance
Content management, Knowledge management
Interactive and collaborative websites
Information architecture
CGI
Python
Zope web application server
UserLand Frontier & Manila web application server
Some Perl scripting
HTML, XHTML
XML, XML-RPC, SOAP
Web services
XSL, XSLT

Other Skills

Familiar with Unix, Windows, and Macintosh
Technical writing, digital publishing, computer graphics, typeface design & digitization
Expert with Microsoft Office tools (Word, Excel, Powerpoint); Visio; Adobe Illustrator; Adobe InDesign; HyperCard; Fontographer;
Decision analysis methodology

EMPLOYMENT HISTORY

Business Systems Analyst, CSG Systems, Inc., Englewood, CO Mar 2001–Dec 2001

Generated software requirements and preliminary design for Telephone Number Inventory module for NextGen cable/telephony billing system. Worked with product-domain analysts to establish and clarify requirements.

Sr. Software Engineer, CSG Systems, Inc., Englewood, CO Feb 1998–Feb 2001

Designed and implemented (in OO C++) CosTRAK cross-platform (Unix/Windows) telephony resale billing analysis application. Led technical team and performed OO design and C++ implementation for service delivery subsystem (SDS) for cable/telephony order fulfillment, including automated fulfillment interfaces and work flow management. Identified and implemented system design improvements and established and clarified requirements in cooperation with product-domain analysts.

Sr. Software Engineer, The Registry, Denver, CO Apr 1996–Jan 1998

As consultant on contract with Telecommunications, Inc., then with CSG Systems: performed OO design and C++ implementation on the cross-platform (Unix/Windows/MacOS) SUMMITrak integrated enterprise subscriber management system and on the CosTRAK Telephony billing analysis application. Designed and implemented SUMMITrak serialized asset management module in OO C++.

Staff Engineer, Electronic, Hughes Aircraft Company, El Segundo, California 1993–Mar 1996

Designed DSP architecture for commercial active phased array satellite communication antenna. Designed DSP architecture for large digital-beamforming microwave communication antenna. Prototyped adaptive MobileSat terminal using programmable DSP microprocessor. Developed general-purpose microwave imaging system simulation program for in-house use. Included complex tomography and sparse array techniques.

MTS 2, Electronic, Hughes Aircraft Company, El Segundo, California 1989–1993

Designed DSP architecture for commercial active phased array satellite communication antenna. Designed DSP architecture for large digital-beamforming microwave communication antenna. Prototyped adaptive MobileSat terminal using programmable DSP microprocessor. Developed general-purpose microwave imaging system simulation program for in-house use. Included complex tomography and sparse array techniques.

MTS, Electronic, Hughes Aircraft Company, El Segundo, California 1983–1989

Developed general-purpose contour and 2.5-D surface plotting programs. General editor of *Technology Survey of Microwave Radiometry*. Developed microwave imaging radiometer prototypes, including data conversion, communication and control, hardware/software interfacing.

EDUCATION

B.S. in Electronic Engineering, 1983; Northrop University, Inglewood, CA

Continuing Education:

Object Oriented Analysis

Content Management

Decision Analysis

Object Oriented Design

Knowledge Management

Digital Signal Processing

Structured System Design

User Centered Design

Antenna Design

MEMBERSHIPS AND OTHER ACTIVITIES

Honorary Societies: Eta Kappa Nu, Sigma Zeta, Tau Beta Pi.

Internet Chamber of Commerce member since March, 2002.

National Space Society member since 1988.

Royal Scottish Country Dance Society (RSCDS) since 1984. RSCDS-certified SCD teacher, 1999. Scottish Country Dancers of Colorado since 1996.

Amateur radio General Class operator since July, 2001.

PATENTS AND PUBLICATIONS

Patent: *Methods for Measuring the Power Linearity of Microwave Detectors for Radiometric Applications*, 1997.

Patent: *Passive Microwave Near-Field Tomographic Imaging System and Method*, 1992.

Patent: *Radiometer System Incorporating a Cylindrical Parabolic Reflector and Minimum Redundancy Array Feed*, 1991.

Patent: *Polystatic Correlating Radar*, 1991.

Patent: *Simultaneous-Delay Correlator Apparatus*, 1988.

“Methods for Measuring the Power Linearity of Microwave Detectors for Radiometric Applications,” with V. S. Reinhardt et al. *Microwave Theory and Techniques*, V.43, No.4, April 1995.

“ClarisDraw: Claris’ Latest (and Greatest?)” *MacDigest*, V.13, No. 1, Jan 1995.

“Earthquake Art: How’d They Do That Logo?” *MacDigest*, V.12, No. 3, Mar 1994.

Website: 3rd Party Plugins (<http://plugins.weblogger.com/>), a support site for the Frontier/Manila community.