

Robert Harris

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Experience

ConnectSolutions, Inc. Senior Software Engineer Developed back end services integrated with Linked Data and table based stores, GeoServer, and browser front ends.	2010 to 2011
Xuggle, Inc. (acquired by ConnectSolutions, Inc.) Co-Founder Co-developed and published Xuggler, a popular open source Java wrapper for FFmpeg. Co-developed a real-time video mixing system based on Xuggler.	2008 to 2010
NASA Ames Research Center Programmer/Analyst in Autonomy Group Developed high level behavior for an autonomous rotorcraft. Contributed to a wide range of aeronautics and autonomy projects including Plexil, a language for representing plans for automation.	2000 to 2008
NASA Ames Research Center Programmer/Analyst in Cognitive Psychology Group Implemented cognitive psychology experiments involving precision timing of stimuli and responses.	1997 to 2000
NetSource, Inc. Software Engineer Developed real-time, fault tolerant telephony systems for international dial-back applications.	1994 to 1997
Workframe, Inc. Software Engineer Developed email agents.	1989 to 1994
Cybermation, Inc. C++ Programmer Implemented device drivers which interfaced between a graphical user interface and material cutting machinery.	Summer 1988
Workframe, Inc. Prolog Programmer Implemented software to handle pre-printed forms.	Summer 1987

Selected Publications

Demonstration of Robust Execution on a NASA Lunar Rover Testbed

Verma V, Baskaran V, Utz H, Harris R, Fry C
Proceedings from the International Symposium on Artificial Intelligence, Robotics and Automation in Space, Hollywood, CA, Feb 26-29, 2008.

Evaluating UAS Autonomy Operations Software In Simulation

Jarvis P, Harris R, Frost C
Proceedings from the AIAA Infotech@Aerospace Conference, Rohnert Park, CA, May 7-10 2007.

Design, Integration, and Flight Test Results for an Autonomous Surveillance Helicopter

Whalley M, Freed M, Harris R, Takahashi M, Schulein G, Howlett J
Presented at The American Helicopter Society International Specialists' Meeting on Unmanned Rotorcraft, Mesa, AZ, Jan 18-20 2005.

Measuring Autonomous UAV Surveillance Performance

Freed M, Harris R, Shafto M
Proceedings from the Performance Metrics for Intelligent Systems, Gaithersburg, MD, Aug 24-26, 2004.

The NASA/Army Autonomous Rotorcraft Project

Whalley M, Freed M, Takahashi M, Christian D, Patterson-Hine A, Schulein G, Harris R
Presented at the American Helicopter Society 59th Annual Forum, Phoenix, AZ, May 6-8, 2003.

Education

University of Massachusetts at Amherst

Computer and Information Sciences

1987 to 1989

Brookline High School

1981 to 1985

Skills

Current

Java, Swing, GeoTools/GeoServer, Linked Data/RDF, OpenRDF/Sesame, JUnit, JMeter, Jersey, Tomcat, XML, JSON, JAXB, XPath, SPARQL, SQL, Android, Maven, Ant, Git, Subversion

Stale

Spring, Python, Lisp, PDL, Plexil, C++, C, x86/6502/PIC Assembly, Pascal, Prolog, CVS

Projects

Splink

A light weight interface for performing SPARQL queries on Sesame Linked Data stores.
<https://github.com/treboresque/Splink/wiki>

2011

SarynPaint

A paint program for children 2 years of age and up.
<http://code.google.com/p/sarynpaint/>

2005

Interests

Graphic Design, Information Visualization, Flight