

Matthew Kopala

mkopala@gmail.com

Gilbert, AZ 85233

602-466-8781

- OBJECTIVE** To obtain a full-time position as an engineering manager, system architect, or lead developer in a fast-paced, cutting-edge, creative environment where I can put my intelligence, creativity, and 10+ years of experience to work. To work at a company where innovation, academic research, efficiency, and excellent communication are prized, encouraged, and rewarded.
- STRENGTHS**
- **Very intelligent, quick learner, thorough, mathematical:** High school Valedictorian, perfect SAT/GRE math scores, top of U of A Computer Engineering class, highly skilled in silicon design, design automation, programming, and project management.
 - **Excellent communication skills:** Don't hesitate to use all human resources & establish contacts and relationships with coworkers within immediate team as well as entire company. Efficient & frequent communication via email, instant messenger, phone, wikis, and in-person.
 - **Project management:** Have consistently & quickly gained a big-picture view of projects, and have designed improvements to the design flow & methodology (AMD, L-3) and technology to improve efficiency, cooperation, information sharing, and code re-use (GoDaddy, L-3). Consistently & skillfully worked with managers & peers to organize tasks, priorities, and responsibilities. Highly skilled at prioritizing tasks to complete projects quickly with minimal bottlenecks, while keeping code & infrastructure flexible, scalable, and re-usable. Acted as expert in several areas and provided guidance as a mentor to junior engineers.
 - **Open-minded, multi-cultural, quick-adaptor, well-traveled:** Have visited 40+ countries, speak and/or are familiar with multiple languages, writing systems & customs.
- SKILLS**
- **Operating Systems:** UNIX (Linux, Solaris, FreeBSD, Mac OS), Windows 2003/XP/Vista, Cygwin, VMWare Workstation
 - **Programming Languages:** PHP, Perl, Python, C, C++, C#, Tcl/Tk, ColdFusion, Ruby, Java, LISP
 - **Version Control:** CVS, Subversion, Git, Team System, SmartCVS, TortoiseSVN, RCS
 - **Web Servers, etc.:** Apache 1.3/2.0/2.2, IIS, HTTP, FTP, Firebug, Fiddler, Wireshark, cURL, Firefox, IE 6/7, Safari, Opera
 - **Databases:** MySQL, SQLite, SQL Server 2000/2005, AMD proprietary object database
 - **Web Applications:** ASP.NET, PHP, Web services, SOAP, XML, XMLHttpRequest, HTML, CSS, Javascript, prototype, Dojo
 - **Networking:** Cisco IOS, D-link, Linksys, DD-WRT, VLAN configuration, link aggregation, multipathing, SAN, iSCSI
 - **Builds, Deployments, Backups:** Make, rpmbuild, scp, rsync, rsnapshot, msbuild, CruiseControl .NET, doxygen
 - **Languages:** read/write/speak parts of 10+ languages: Spanish, Japanese, Chinese, German, French, Malay, Thai, Hindi ...
 - **Misc:** Agile development methods, iterations, test-driven design, continuous integration, best practices
- EXPERIENCE**
- 6/09 - Present** **L-3 COMMUNICATIONS - LINK SIMULATION & TRAINING** Mesa, AZ
Sr. Software Engineer II
- Leading the design and development of a volunteer computing using BOINC to support the computational needs of cognitive scientists at the Performance and Learning Models (PALM) branch of the Air Force Research Laboratory (AFRL). Currently lead a team of three engineers.
 - Led the virtualization of the server infrastructure using VMWare ESXi, conversion to SAN based storage, LDAP authentication, administration of openSUSE Linux systems, antivirus, firewall administration, backups & snapshots.
 - Led and directed the implementation of the Scrum agile development methodology as the ScrumMaster, served as Product Owner, trained new Product Owner, researched & implemented tools for managing and tracking progress. Lead team meetings & alternate facilitating team retrospectives.
 - Research & specification of two server installations using Dell and Cisco equipment at two universities in Dayton, Ohio. Traveled to Dayton to collaborate with university faculty, students, and staff for the AFRL Educational Partnership Agreement.
 - Responsible for architecture, design, development, testing, integration, builds, deployments, and maintenance of system
 - Git, Subversion, Visual Studio, Eclipse, bash, Perl, PHP, FogBugz, Citrix, MySQL, MediaWiki, Lisp, VMWare ESXi.
- 3/08 - 9/08** **OCÉ REPROGRAPHICS TECHNOLOGIES** Phoenix, AZ
Sr. Software Developer
- Development of an online services system and client tools for reprographers, architects, engineers, and contractors.
 - ASP.NET MVC framework, C#, C++, MS SQL Server 2005, and Dojo Javascript framework, VMWare, VS Team System.
 - Build flow design, MSBuild, Sandcastle, Visual Studio Team Build. MediaWiki admin & documentation coordinator.
- 2/08 - 9/08** **MEETin.org** (non-profit/volunteer, part-time, telecommute)
System Architect/Developer/Webmaster
- Designed an events map application using Google maps to display pins on a map for upcoming events.
 - Bug fixes, feature additions, enhancements, code & infrastructure improvements. Performance analysis and SQL optimization.
 - Development using ColdFusion, Javascript, CSS, MS SQL Server, Windows Server.
- 6/07 - 1/08** **GODADDY.COM** Gilbert, AZ
Server Control Center Engineer
- Designed & implemented a cross-browser AJAX based sitemap management & generation tool using PHP, SQLite, CSS, HTML, and Javascript for the shared hosting platform. Managed iterations, design tasks, and deployments.
 - Worked with QA engineers to ensure adequate testing coverage and to improve & automate testing procedures.
 - Developed modules in ASP.NET using Visual Studio 2005 and Team Foundation Server.

12/06 - 3/07

FREELANCE CONSULTING

- Developed the photography website for a professional photographer to support e-commerce and searching & organizing over 15,000 images using PHP, MySQL, CSS, Javascript.
- Created Perl scripts for image processing using ExifTool, GD, and ImageMagick. Backup scripts using rsnapshot & rsync.

10/02 - 4/06

INDEPENDENT DESIGN

- Designed and implemented a travel website using PHP, JavaScript, MySQL, and Apache Web Server.
- Involved use of UMN MapServer, ImageMagick, GIS & cartography software, and the Google Maps API.

8/00 - 7/02

ADVANCED MICRO DEVICES Austin, TX

Product Development Engineer

- Completed the implementation of the AMD 64-bit Opteron floating point adder design module, from architectural specification to tape-out, including RTL to gate implementation, placement, static timing, routing & parasitics extraction.
- Designed a flow in Perl to build a full-chip level database from sub-modules, run timing and create design progress reports for the entire implementation team. This decreased the wait time for full-chip timing results from one day to a few hours.
- Acted as one of a handful of experts on the tools & implementation flow.
- Worked at the level of other engineers with 6 to 8 years of experience after only one year.

EDUCATION

THE UNIVERSITY OF ARIZONA

Bachelor of Science, Computer Engineering, May 2000
Summa Cum Laude, With Honors, Overall GPA: 3.93/4.00

U of A Honors Program, 1996-2000
U of A ECE Department Outstanding Senior

PUBLICATIONS

L. R. Moore, M. E. Kopala, T. R. Mielke, M. A. Krusmark, K.A. Gluck. "Simultaneous Performance Exploration and Optimized Search with Volunteer Computing". ACM High Performance Distributed Computing 2010 (HPDC2010), 2010.