

Michalis Papakyriakou

Electrical and Computer Engineer of Technical Chamber

CONTACT INFORMATION

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PERSONAL INFORMATION

Date of birth: September 9th, 1981
Nationality: Hellenic
Marital status: Married, one child
Military obligations: Fulfilled

EDUCATION

National Technical University of Athens, Athens, Greece

Ph.D., Electrical and Computer Engineering, **Oct 2004 – present**

- Thesis topic: *Programming Language Design and Implementation*
- Supervisor: Assistant Professor Nikolaos Papaspyrou
- Area of Study: Programming Language Theory

Dipl. Eng., Electrical and Computer Engineering, **Sep 1999 – Oct 2004**

- Diploma thesis topic: Implementation of a type language, applicable for source code verification
- Supervisor: Assistant Professor Nikolaos Papaspyrou
- Area of Study: Programming Language Theory
- GPA: 7.74 (10.0 scale)

PROFESSIONAL EXPERIENCE

Software Engineering Laboratory, NTUA, Athens, Greece

Systems and network administrator (part-time) **Sep 2003 – present**

- **Windows** Installations, Configurations and Troubleshooting of Windows (NT/9X/2k/2k3/XP), DNS, DHCP, Active Directory, Domain Controllers, TCP/IP, Permission Management, VNC, Terminal services, VMware, IIS, Registry Editing and analysis system.
- **Linux** Installation, Management and Troubleshooting, User Administration, Monitoring, Quota management, LDAP, SSH, FTP, NIS, NAT, TCP/IP, kernel configuration, Installation and Configuration of Web Server, Proxy Server, Network File Server, Router, Firewall, SAMBA, DNS, DHCP, MAIL, LVM etc.
- **Networking** Network design and implementation, Cisco IOS

School of ECE, NTUA, Athens, Greece

IT administrator (part-time) **Feb 2005 – Oct 2010**

- Project specification and requirements development.
- Involved in testing the data integrity with SQL code. Reported defects.
- Technical support: System maintenance (Centura/SQLBase, IIS, apache web server, Win2003 server, Linux server)

School of ECE computing centre, Athens, Greece

System and network administrator (part-time) **Jan 2005 – Apr 2010**

- **Linux** Installations, Management and Troubleshooting, Quota management, LDAP, SSH, FTP, NAT, TCP/IP, kernel configuration, Installation and Configuration of Web Server, Proxy Server, Network File Server, Router, Firewall, SAMBA, DNS, DHCP, MAIL, VPN, etc.
- **Networking** Network design and implementation, Cisco IOS

Information Technology Support Center, Hellenic Army General Staff,
Athens, Greece

Software engineer

Feb 2008 – Oct 2009
Dec 2010 – Jul 2011 (military obligations)

- Design and implementation of a resources management system
- Specification and requirements analysis
- Java programming in Eclipse and database management with Oracle SQL

Greek Research and Technology Network, Athens, Greece

Software developer

Oct 2006 – Jun 2007

- Feature implementation in gss libraries (programming language: C)
- Extension of a GRID workflow editor with CE (compute elements) capabilities (Tomcat, Java and C)

RESEARCH
EXPERIENCE

Software Engineering Laboratory, NTUA, Athens, Greece

”Theory of Algorithms and Logic: Applications in Computer Science”

Sep 2004 – Jun 2006

- Funded by the Greek Ministry for Education and the European Union

“TELL: Towards Effective Network Supported Collaborative Learning Activities”

Sep 2004 – Oct 2005

- Funded by the European Union programme e-Learning

“Continuations and Monads for Parallel and Distributed Computing”

- Funded by the Greek Secretariat for Research and Technology, bilateral Greek-Romanian research collaboration 2002-2005

CONFERENCES/
PUBLICATIONS

Georgios Korfiatis, Michalis Papakyriakou and Nikolaos Papaspyrou. “A Type and Effect System for Implementing Functional Arrays with Destructive Updates”, in Proceedings of *Federated Conference on Computer Science and Information Systems*, pp. 863-870, Szczecin, Poland, September 2011

Niki Vazou, Michalis Papakyriakou and Nikolaos Papaspyrou. “Memory Safety and Race Freedom in Concurrent Programming Languages with Linear Capabilities”, in Proceedings of *Federated Conference on Computer Science and Information Systems*, pp. 909-916, Szczecin, Poland, September 2011

Michael Lampis, Kyriakos G. Ginis, Michalis A. Papakyriakou and Nikolaos S. Papaspyrou. “Quantum Data and Control Made Easier”, in *Electronic Notes in Theoretical Computer Science*, Vol. 210, pp. 85-105, July 2008

Angelos Manousaridis, Michalis Papakyriakou and Nikolaos Papaspyrou. “From Program Verification to Certified Binaries”, in Proceedings of *Computability in Europe 2008*, pp. 324-331, Athens, Greece, June 2008

Michalis A. Papakyriakou and Nikolaos S. Papaspyrou. “Mechanized Proofs of Type Safety for a Family of Lambda Calculi with References”, in *2nd Informal ACM SIGPLAN Workshop on Mechanizing Metatheory*, Freiburg, Germany, October 2007

Michalis A. Papakyriakou, Prodromos E. Gerakios and Nikolaos S. Papaspyrou. “A Mechanized Proof of Type Safety for the Polymorphic Lambda Calculus with References”, in Proceedings of *6th Panhellenic Logic Symposium*, Volos, Greece, July 2007

Nikolaos S. Papaspyrou, Michalis A. Papakyriakou and Angelos Manousaridis. “Encoding Hoare Logic in Typed Certified Code”, in Proceedings of *5th Panhellenic Logic Symposium*, pp. 134-141, Athens, Greece, July 2005

TEACHING EXPERIENCE	<i>Assistant in “Computer Programming (1st semester)”</i>	2004 – 2010
	<i>Assistant in “Software Engineering (9th semester)”</i>	2004 – 2010
	<i>Assistant in “Programming Techniques (2nd semester)”</i>	2003 – 2010
	<i>Assistant in “Compilers (8th semester)”</i>	2003 – 2010
TECHNICAL SKILLS	Computer Programming:	
	<ul style="list-style-type: none"> • C, C++, Java, JavaScript, Pascal, OCaml, Haskell, Erlang, Perl, PHP, Lisp, UNIX shell scripting (including POSIX.2), GNU make, SQL, MySQL, Oracle 	
	Version Control and Software Configuration Management:	
	<ul style="list-style-type: none"> • DVCS (Mercurial/MQ, Git/StGit), VCS (RCS, CVS, SVN), and others 	
	Information/Internet Technology:	
	<ul style="list-style-type: none"> • Networking (UDP, TCP, ARP, DNS, Dynamic routing), Services (Apache, SQL, MediaWiki, POP, IMAP, SMTP, application-specific daemon design) 	
RESEARCH INTERESTS	Productivity Applications:	
	<ul style="list-style-type: none"> • \TeX (\LaTeX, \BibTeX, \PSTricks), Vim, Emacs, Eclipse, most common productivity packages (for Windows and Linux platforms) 	
	Operating Systems:	
	<ul style="list-style-type: none"> • Microsoft Windows family, Linux, BSD, Solaris 	
	Theory and implementation of programming languages:	
	<ul style="list-style-type: none"> • Functional Programming • Type Systems and Semantics • Mechanized Theorem Proving • Safety of Concurrent Programming Languages • Compilers, Static Analysis and Program Verification 	
FOREIGN LANGUAGES	Other research interests:	
	<ul style="list-style-type: none"> • Software Engineering • Educational Software and Learning Environments 	
	English	
	<ul style="list-style-type: none"> • University of Cambridge: Certificate of Proficiency in English (1997) • Endorsement to Certificate of Proficiency in English: Translation from and into Greek (1998) 	
	German	
	<ul style="list-style-type: none"> • Zertifikat, Deutsch als Fremdsprache (1997) 	