

# Adnan Burak Gürdağ

Email: [bgurdag@ieee.org](mailto:bgurdag@ieee.org)  
Home Page: <http://www.gurdag.com/burak>

Date of Birth: 17.01.1978

## OBJECTIVES

- To take part in serious software projects as a software engineer, a technical coach or a supervisor.
- To take part in research projects that overlap with my doctoral research.
- To be able to work on my doctoral thesis during my employment.

## EDUCATION

- Boğaziçi University, Istanbul, Turkey  
Ph.D. candidate, Computer Engineering (Expected graduation date : July 2008)
  - Thesis, ongoing.
  - Thesis proposal accepted in January 2005.
  - Qualification exam passed in June 2004.
  - Courses completed in January 2004, GPA : 3.51 / 4.00
- Boğaziçi University, Istanbul, Turkey  
M.S., Computer Engineering, July 2002, GPA : 3.70 / 4.00
- Boğaziçi University, Istanbul, Turkey  
B.S., Computer Engineering, July 1999, GPA: 3.32 / 4.00 (with Honor Degree)
- Boğaziçi University, Istanbul, Turkey  
English Preparation class (Beginner Level), June 1995, Proficiency Exam Grade : A
- Erenköy İntaş Lisesi, Istanbul, Turkey  
High School, June 1994, GPA: 4.01 / 5.00
- Cumhuriyet Lisesi, Bursa, Turkey  
Middle School, June 1991
- Setbaşı İlkokulu, Bursa, Turkey  
Primary School, June 1988

## EXPERIENCE

- Sep'06 – current : Senior Software Engineer, Argela Technologies.
  - Participated the design and development of SCCT product (see Projects below)
- Dec'05 – Aug'06 : Researcher, Network Research Laboratory (Netlab), Boğaziçi University.
- Dec'03 – Nov'05 : Software Engineer, Argela Technologies.
  - Design and development of several common software modules (mostly in Java) used by other modules.
  - Responsible for the development and deployment of the infrastructure for building java and c codes using Jakarta Ant.
  - Given support to IT, deployment and development groups on Sun Cluster, MySQL, Solaris and Unix in general.
  - Given consultation on computer and network security in general.
  - Responsible for initial installation and deployment of in-house Oracle 10g DBMS (also for addressing some code portability issues)
- Sep'01 – Nov'03 : Software Engineer, New Generation Switching Systems, Oksijen Teknoloji.
  - Design and development of several part of EasySwitch platform (see Projects below)
  - Deployment support on the field.
- Aug'99 – Aug'01: Network and System Administrator, Department of Computer Engineering, Boğaziçi University.
  - Setup and maintenance of 30 PCs in a PC Laboratory along with a Windows 2000 Server PC
  - Network topology and DNS management
  - Setup and maintenance of 29-node Linux PC Cluster
  - Providing the staff with support about computer problems
- Aug'99 – Sep'01: Research and Teaching Assistant Department of Computer Engineering, Boğaziçi University.  
Courses Assisted:
  - CmpE 446, Computer Architecture, Spring 2001.
  - CmpE 470, Computer Performance Evaluation, Spring 2000.
  - CmpE 150, Introduction to Computing (C Language), Spring 2000.
  - CmpE 322, Operating Systems, Fall 1999, Fall 2000.
- Oct'99 – Sep'01: Research and Teaching Assistant of Turkish Naval Army BIS courses, Boğaziçi University.  
Courses Assisted:
  - OBI 475, Computer Networks, Summer 2001.
  - OBI 322, Operating Systems, Spring 2001.
  - OBI 475, Computer Networks, Spring 2000.
  - OBI 150, Introduction to Computing (C Language), Fall 2000.
- Oct'99 – Sep'01: System Administrator, Turkish Naval Army Student Lab, Boğaziçi University.
  - Setup and maintenance of 10 PCs in a PC Laboratory along with a server PC
- Apr'99 - Aug'99: System Support & Network Engineer, Boğaziçi University Computer Center(BUCC).
  - Supporting university personnel about computer related problems
  - Solving Problems related to NT 4.0 administration inside the center
  - Supporting network unit related to connection problems
- Jan'98 - Sep'98: Sun System Support Engineer, Gantek.
  - Solving problems about Sun Solaris Operating System and several Sun Computers
  - Involved in several big client site maintenance operations such as Turkcell, Alcatel, BP and Tofas

## PROJECTS

- **Turkcell SCCT** (Service and Campaign Configuration Tool), Software Engineer
  - Responsible for the design of Revenue Sharing definitions.
  - Responsible for the design and development of COMET campaign definitions.
- **SANE**, System Administrator
  - Responsible for improvements in system infrastructure in Solaris environment
  - Responsible for helping developers in the deployment of their software
  - See <http://www.argela.com.tr> for the product description
- **CONVERGENCE GATEWAY**, Software Engineer
  - Responsible for the development of SIP subscriber management module
  - Participated in the development of SIP module
  - See <http://www.argela.com.tr> for the product description
- **EASYSWITCH**, Software Engineer
  - Responsible for the first deployment of the EasySwitch platform on field.
  - Design and development of BSSAP message processing part.
  - Design and development of the thread pooling and IP-based distributed messaging infrastructure of EasySwitch platform.
  - Design and development of the call control part of Oksijen's softswitch product EasySwitch™ in compatible with the JAIN APIs
    - See <http://www.oksijen.com> for EasySwitch and <http://java.sun.com/products/jain/> for JAIN
    - See <http://www.oksijen.com> for the product description of EasySwitch.
- **PARALLEL PAGERANK**, Master Thesis, Software Engineer.
  - Design and development of an MPI based parallel application that calculates the PageRank™ vector of a given web graph.
  - Tested on a Myrinet based Linux Cluster with 128 processors.
  - Project Web Site : <http://www.cmpe.boun.edu.tr/~gurdag/msthesis/>
- **ASMA** (Advanced System for Multicomputer Applications), Cluster Administrator.
  - Responsible for the setup, maintenance and administration of a 29-node Linux PC Cluster system which is currently being used to develop parallel and scientific applications in the Department of Computer Engineering, Boğaziçi University. This project is supported by The Scientific and Technical Research Council of Turkey (TUBITAK).
  - Project Web Site: <http://asma.cmpe.boun.edu.tr>
- **AGORA**, A Web-based Online Voting System, Designer & Developer (three-person team project)
  - Language: PHP, Web Server: Apache, DB: MySQL, OS: Linux
  - This project was used by Informatics Associations of Turkey (TBD) for a survey about DNS policies in Turkey.
  - Project Web Site: <https://agora.cmpe.boun.edu.tr>
- **HTLM** (HyperText List Manager), Designer & Developer. (three-person team project)
  - Language: Perl, Web Server: Apache, OS: Linux
  - Web based mailing list manager. A front end service which used majordomo as list processor.
- **KYBELE**, A Beowulf system in Boğaziçi University Computer Center (BUCC)
  - Responsible for the setup of a 17-node Linux PC Cluster system
- **CYBERSHOP**, Designer, Developer & Documenter (six-person team project)
  - Language: Sybase's own web scripting language, DB: Sybase, Web Server: Apache, OS: WinNT
  - Web based online shopping application

## PUBLICATIONS

- B. Gürdağ, C. Özturan, Web Arama Motorları için Bağlantı Temelli Bir Sıralama Algoritmasının Gerçeklenmesi, TBD Kurultayı, Eylül 2002, İstanbul.
- K. Atasu, B. Gürdağ, C. Özturan, M. U. Çağlayan, Communications Performance of Fast Ethernet Based Cluster Multicomputer, Proc. 5th Symp. on Computer Networks, June 2000, Ankara.
- B. Gürdağ, E. Agayev, C. Özturan, M. U. Çağlayan, Development of a Low Cost Network Based Multicomputer, Proc. 4th Symp. on Computer Networks, May 1999, İstanbul.
- B. Gürdağ, C. Özturan, M. U. Çağlayan, Ağ temelli, ekonomik çok işlemcili bilgisayar geliştirilmesi, Bilişim'99, Aralık 1999.

## TRAININGS/SEMINARS

- [Marktobendorf Summer School 2006](#) on Software System Reliability and Security (08/2006)
- SS8 D7 Platform Training (07/2003)
- .NET Seminar by David Chappell, İstanbul (02/2002)
- Java Day 2002, İstanbul (01/2002)
- Implementing MS Windows 2000 Professional & Server (Course 2152B) (01/2001)
- SunTune, Performance Optimization and Parallelization on Sun Systems (04/2000)
- Accelerated Training for MS Windows NT 4.0 (Course 983, covers the materials of “Administering MS Windows NT 4.0(Course 803)” and “Supporting MS Windows NT 4.0 Core Technologies (Course 922)” courses) (06/1999)
- Transition to Solaris 2.6 (01/1998)

## TECHNICAL SKILLS

- *Programming Languages* : C (intermediate), C++ (intermediate), Java (advanced), PHP (intermediate)
- *Operating Systems* : Windows, Linux, Solaris (all in administrative level)
- *Development Tools and Methods*: Eclipse (advanced), DevC++ (advanced), CVS (administrative), ClearCase (user), UML (intermediate), Extreme Programming (intermediate)
- *Database Systems* : MySQL (advanced), Oracle (beginner)
- *Web Servers* : Apache Web Server (administrative)
- *Application Servers* : Tomcat (intermediate), Oracle AS (intermediate)
- *Telecommunication and Networking* : JAIN JCC (advanced), BSSAP (beginner), TCP/IP (advanced), SS7 (beginner), SIP (intermediate), RADIUS (intermediate)
- *Authoring Environments*: LaTeX (intermediate), Microsoft Word (intermediate)
- *Interested Topics* : Software Development Methodologies, Cryptography, Operating Systems, Formal Methods in Security, Parallel and Distributed Systems, Software Project Management, Management of Technological Human Resources
- *Other* : Parallel Programming (with MPICH)

## PERSONAL SKILLS

- Strong interpersonal communication skills
- Strong sense of humor
- Adaptive and (when necessary) proactive team player
- Ambitious learner
- Enthusiastic teacher
- [Lazy and impatient](#) as described by [Larry Wall](#)

## GRANTS

- The Scientific and Technical Research Council of Turkey (TUBITAK), BAYG Grant, Doctorate.
- The Scientific and Technical Research Council of Turkey (TUBITAK), BAYG Grant, Master.
- Turkish Prime Ministry Grant, Undergraduate
- Boğaziçi University Alumni Association (BUMED) Grant, Undergraduate
- Çağdaş Eğitim Vakfı (ÇEV) Grant, Undergraduate

## AFFILIATIONS & MEMBERSHIPS

- Boğaziçi University Network Research Laboratory (NETLAB), Member
- IEEE Computer Society, Member

## HOBBIES & ACTIVITIES

- Computer Engineering Graduate Student Representative in Spring 2000, Fall 2000 and Spring 2001 (by election).
- Reading books on Atatürk, World and Turkish history, history of religions, essays of famous people, mathematics, personality, science and technology from TUBITAK, etc.
- Reading comics (especially following “PhD Comics” and “Penguin”)
- Listening wide variety of music
- Watching good movies of all kind
- Maintaining bonsai trees (very amateur level)
- Making Turkish barbeque (i.e. mangal)
- Having good time with my lady

## OTHER

- have B Class Driving License
- married with no children

**References are available upon request**

last updated on February, 25<sup>th</sup> 2007