

Mahmut DURGUN

**Karamanoglu Mehmetbey University
Department of Computer Engineering
Division of Computer Hardware
Research Assistant**

Personal

Date of birth : 1982

Marital state : Married

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Education and qualifications

2010-..... : Master of Mechatronics Engineering, Gazi Osman Pasa University, Tokat/TURKEY

2008-2009 : Master of Technical Information Department, Vienna University of Technology, Vienna/AUSTRIA

2004-2008 : Bachelor of Computer Engineering, Karadeniz Technical University, Trabzon/TURKEY

2001-2003 : Computer Technology and Programming, Vocational School of Ege, Ege University, Izmir/TURKEY

1998 -2000 : Computer Software, Tokat Technical High School, Tokat/TURKEY

1995 -1998 : Department of Computer, Tokat Vocational Highschool, Tokat/TURKEY

Academic Experience

04/2011 (*Continue*) - Karamanoglu Mehmetbey University, Department of Computer Engineering, Division of Computer Hardware, Research Assistant (Full Time)

Professional Experience

10/2009 –Hasan Kucukarslan Metal, Trabzon, TURKEY, Network Administrator (Full Time)

Developed and administrate full featured online shopping mall (<http://www.hasankucukarslametal.com.tr>) with online payment gateway for credit card processing, visitor tracking, banner ad management and product promotion through E-mail. Create action plans and review scripts for proposed changes.

Ensure compliance with software licensing for associated applications. Insure and maintain integrity to include virus protection and network security. Monitor the implementation of all IT Security Systems.

Provides technical support by phone, remote screen sharing, and in person when required, to maximize first-call solve rates for local and remote users.

08/2007 – MYD Consulting, Trabzon, TURKEY, ISO 9001, ISO 14001, 22000 Trainer (Part Time)

I have been working for organizations Standardization, Quality Management and Quality Control

11/2003 – AKNET Software, Izmir, TURKEY, Programmer & Web Developer (Part Time)

PHP/MySQL development projects, primarily including content management applications. Also developing a site including database administration using SQL Server, programming in PHP and Flash, and interface design.

Investigate user problems, identify their source, determine possible solutions, test and implement solutions.

Manages network operations to include: troubleshooting connectivity problems; installing & maintaining routers; adding/terminating users; assigning rights and access; resetting passwords; establishing e-mail addresses; assessing and reporting operational status; performing backups and restores; etc. Performs routine preventive maintenance on hardware and software.

Install, configure, and maintain production servers, backup servers, file servers, Ethernet networks, network cabling, and other related equipment, devices, and systems;

Plan and implement network security, including building firewalls, applying cryptography to network applications, managing host security, file permissions, backup and disaster recovery plans, file system integrity, and adding and deleting users.

Practical Training

11/2009 – Dirman Electronic, Antalya, TURKEY, Programmer & Electronic Developer (30 day)

Performed greenhouse control and testing on telecommunication type equipment design. Designing included Drip Irrigation System, temperature, lightning and testing electrostatic discharge, thermal tolerance and electromagnetic compatibility. Implemented circuit board changes to solve potential problems.

06/2007 – Mert Electronic, Ankara, TURKEY, Programmer (30 day)

Have written: Web-Circuit Systems, real-time controllers, device firmware, usb devices , communications subsystems, terminal emulators, device drivers, hardware diagnostics, manufacturing tests, software development

06/2003 – Department of Computer Engineering, Ege University, Izmir, TURKEY, Programmer (50 day)

Developed and administrate full featured career system (<http://egekariyer.ege.edu.tr>).

Set up VLANs and configured ISL trunk on Fast-Ethernet channel between switches. Provided WAN/LAN/VLAN, NAT support including installation and maintenance to users in a Cisco network environment. Prepared and developed technical documentations and security policies for the organization.

Professional Projects

05/2011 – Republic of Turkey, The Ministry of Science, Industry and Technology, Research And Development (R&D) Project, Project Manager (1 year) – 100.000 TL (About 75.000 \$)

Project Name : Embedded System Web Server and Central Data Unit

05/2011 – Republic of Turkey, The Ministry of Science, Industry and Technology, Research And Development (R&D) Project, Project Advisor (1 year) – 100.000 TL (About 75.000 \$)

Project Name : Smart House Automation System

Open Source Projects

Web site development : design, programming, conception, maintenance, management :

- 1- Online Content Management System with Extjs; AJAX, JAVA, XSLT, PHP, XHTML, CSS, MYSQL
- 2- Online Quality Management System with Extjs; AJAX, JAVA, XSLT, PHP, XHTML, CSS, MYSQL
- 3- Online Sticker and Stock System with Extjs; AJAX, JAVA, XSLT, PHP, XHTML, CSS, MYSQL
- 4- Portal System, PHP, MYSQL, JAVA, JAVASCRIPT, CSS
- 5- Youtube Clone System
- 6- Auto Translate Chatting System : use google translate;
- 7- Personal Website
- 8- etc.

Programming :

- 1- Stock System
- 2- Winamp Plugin
- 3- Cryptology Mailing System
- 4- News Software
- 5- Screensaver
- 6- etc.

Graphic Design :

- 1- Logo design (Now 5 Company use my designs)
- 2- Calendar, Brochure, Sticker design
- 3- Interactive CD Design for schools.
- 4- Personal Card Design (About 20 Company use my cards)
- 5- Website Template Design (About 30 Company use my templates)
6. etc.

Electronic Projects : Circuit Design, Development, Programming

- 1- Usb-PIC 18F4550 Computer Hardware Control System, Use about 10 Servo with Decoder and Complements.
- 2- Computer, Camera and RF Circuit use Electronic Toy Control System. My Friends Bachelor Thesis.
- 3- Electronic pharmacy circuit developing.
- 4- 68000 and 6802 Microprocessor software : Melody, Mathematical, Step motor control etc.
- 5- Satellite system programming with java.
- 6- etc.

Professional Certifications

1- Communication Networks, Advanced Topics : Knowledge of systems and methods used in photonic networks, key technologies for the construction of photonic network nodes as well as a sound understanding of the interactions between different physical effects.

Here, a classification of realization possibilities for different key technologies in optical networks is given, constructing on the base knowledge of optical telecommunications. Applications of photonic networks in the access, regional, and global areas are discussed. All components, systems, methods, and strategies necessary to build such networks are treated. An introduction into different techniques for simulation of optical networks is given. These techniques are demonstrated based on descriptive examples with typical simulation results. Some practice-related exercises (demonstrations and measurements) will be carried out on the institute's SDH/WDM network testbed.

Fundamentals of optical components, multiplexing techniques (WDM, OCDM, OTDM), modulation techniques, Structures for the circuit- and packet-switching, Today's optical networks (SONET/SDH, GbE, 10GbE, WDM, FC, FTTX), Optical switching vs. electrical switching, Encoding of the control information in the optical domain,

Control plane, All-optical networks, Structures and methods for fast all-optical packet-switched networks, Link and network management in optical networks, Planning and Simulation of photonic networks (2 semester 15.07.2009 - Vienna University of Technology)

2- Database-based Web Servers : Structure of a database-based Web server, Creation of dynamic Web pages by using PHP, Data entry with Web forms, Database operations under PHP and SQL, Client-side operations using JavaScript, Optimising the design of a database-based Web server (1 semester 08.04.2009 - Vienna University of Technology)

3- Audio Production : introduce the basics of audio with a focus on audio production for multimedia purposes. Recording Voice, Editing, Mixing, Digital Audio Workstations, Some audio background (1 semester 30.06.2009- Vienna University of Technology)

4- Video Production : To gain basic knowledge and understanding of video production skills through both practical exercises and theoretical course program. The course will focus on single-camera field production and the technical and aesthetic elements needed for a successful production. Video Editing , Scriptwriting, Lighting, Aesthetics, Recording Techniques (1 semester 30.06.2009- Vienna University of Technology)

5- Mechatronic Systems : Mechatronic is an interdisciplinary subject combining mechanical systems (mechanical, precision engineering), electr(on)ics (micro and power electronics, measurement, actuators) and information technology (system theory and engineering, automation, software engineering, artificial intelligence). Mechatronic systems gain more and more importance.

This lecture gives a brief summary of fundamentals and briefs with design, functionality and future trends with examples of following specific fields: mechatronic machine parts, mechatronic hydraulics and pneumatics (fluidtronic), mechatronic actuators, micromechanical system, mobile robots, ... (1 semester 13.03.2009 - Vienna University of Technology)

6- Fundamentals of appropriate technology : Ad 1. Theory and methodology will be explained based on publications in the field, specifically the books "Technology for liberation" and "The proof of the pudding" (theory) and "Appropriate technology for developing countries and - in industrialised countries"(practice) as well as other selected publications of GrAT. The course is a mutual activity of teacher and students based on the principle of learning by personal experience in the working group

Ad 2. Examples of group exercise reports are: Inventory of small scale hydropower in Austria, Design and construction of an clay heating furnace, Maintenance technology in the tropics, Design of a bicycle for developing countries, Comparative research of claytechnology in architecture in Ghana and Austria, Trends in maintainabilty of consumer goods (white goods) in Austria

Ad 3. The group report will contain proof that the students have understood the theory and are able to apply its methodology to the subject of research. (1 semester 30.06.2009 - Vienna University of Technology)

7- Robotics : History, definitions, and population. Terminology, standardization, and norms. Kinematics and dynamics of robots. Design of robots. Workplace design. Operating modes of robots: pose-to-pose, continuous path. End-effectors. Control algorithms and strategies. Artificial intelligence in robotics. Human interaction with robots. Off-line programming and robot teachning.

Integration and installation of robots in production system. Application of industrial robots. Mobile robots.

Service robots. Sensors. Machine vision systems.

Modern research projects and technical development in robotics. (1 semester 30.01.2009- Vienna University of Technology)

8- Information Technology : Software Engineering will be defined and classified in the context of Computer Science. The main focus is on technical and organizational concepts. Technically the Unified Modeling Language (UML) and Component Based Software Engineering (CBSE) are discussed. The UML is the standard language for describing object-oriented software systems in analysis and design. CBSE is a promising approach for the development of components and for their reuse in large software systems. Life-cycle models and process models, like the V-model and the Rational Unified Process

(RUP) are the focus of the organizational part of Software Engineering. Beyond that the new approaches on agile software development are discussed. (1 semester 15.01.2009 - Vienna University of Technology)

9- Contract and liability law for engineers : Knowledge of Contract and Liability Law for engineers(1 semester 17.04.2009 - Vienna University of Technology)

10- Private Law : Main aspect of private law for europe union (1 semester 24.01.2009- Vienna University of Technology)

11- Computer Simulation : After learning of basic skills (exercises) programming with continuous simulation languages (ACSL) are also difficulties in the exercises as they occur in real problems, identified and discussed possible remedies. Loosening of simulations of scientific and technical tasks on the computer. Overview of the software market on numeric and symbolic computation. (1 semester 30.07.2009 - Vienna University of Technology)

Theses:

Mahmut DURGUN (2009, 06), " Web 2.0 Ideas, technologies and implications", Bachelor Thesis, Vienna University of Technology, Vienna, Austria.

Mahmut DURGUN (2003, 06), "Ege University Career systems", Vocational School's thesis, Ege University, Izmir, Turkey.

Foreign languages :

Turkish: Native language

English: Good level

German: Beginner

Professional Skills :

Operating Systems : Windows 7, Windows Vista, Windows XP, Windows 2008 Server, Pardus Linux, Solaris, Kind of Linux Server System, MacOSX.. etc. and i work preferentially under Mac OS X

Platforms & Servers : Apache Web Server, Database Servers (Mysql, Postgresql, Oracle), Mail Servers, Share Servers..etc.

Networking : Today's optical networks (SONET/SDH, GbE, 10GbE, WDM, FC, FTTX) and TCP/IP, DNS, LDAP, DHCP, IDS/IPS, ATM Network, Ethernet, Frame Relay, ISDN, Switching/Routing, Multicasting, Access Lists, SIP/SDP, VLAN, VTP/STP, IPsec/GRE, MPLS, HSRP/VRRP/GLBP, IPv6,

Computer Languages : Java, C++, Visual Basic, Delphi, Haskell, Turbo Pascal, Shell languages and I also handled assembler languages

Database Tools : MYSQL, Oracle, MS Access 2000/2003

Web Technologies : PHP, Java, Google Web Toolkit, Ext JS. Expert in Web development
PHP/Mysql/XHTML/Javascript (daily practicing since 2002 year).

Web Designing : HTML, DHTML, XML, CSS, XHTML, VB Script, Java Script, Web Frameworks

Graphics : Adobe Photoshop CS4, Adobe Illustrator CS4, Flash CS4, Fireworks CS4, Corel Draw, Gimp

Other Tools : Vb.net, Macromedia Dreamweaver CS4, MS Office 2003/2007, VMWare, Adobe Soundbooth CS4, Adobe Premiere CS4, Macromedia Flash CS4, Adobe After Effects CS 4, IWork 09,

Theoretical knowledge : Discrete mathematics, algebra, calculus, algorithm theory (strings and graph above all, dynamic programming), statistics, fundamentals of social network theory, cluster theory, machine learning, fundamentals data mining techniques.

Additional Computer Science Information

Ajax and Web Technologies, Computer science, Algorithms, Discrete math Data compression techniques, Image manipulation techniques Data mining and clustering, Machine learning Information retrieval and data crawling Economics and social networks, Financial forecast and time series analysis. Computer security Data stream algorithm, dimensionality reduction.

Hobbies, Interest, Activitie

Sports : Rafting, Ice Ski, Football, Table tennis

Programming Interests : Customized Accounting Software Package, Accounts Payable System, Stock Control & Management System, Employee Time Management and Payroll System, Sales Management and Reporting system and Enterprise Management system for several companies.

Other interests : Include weapons technologies, military science, politics, chemistry and mysticism.

Hobbies : Reading & writing, Computers, Physics, Video games, Music, Movies

Additional Personal Information

Driving License : TURKEY, Trabzon

Passport Details : Expire On 18/05/2012

Smoke : No

Military Status : Suspended.

Total Experience : 10 Year

References

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