VOLKAN OSMAN KEPOGLU

PERSONAL INFORMATION Last Updated: 28-04-2007

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Date of Birth, Place	08-01-1977, Ankara
Military Status	Deferred until 30-09-2010

EDUCATIONAL BACKGROUND

		Initial–Final	Degree (GPA)
Middle East Technical University (METU)			
Doctoral	Geodetic and Geographic Information Technologies Graduate School of Natural and Applied Sciences	(2003 – ……)	3.50 / 4
Graduate	The Contribution of Geographic Information System to the Urban Planning Process in Turkey Urban Design, Faculty of Architecture	(2000 – 2003)	3.14 / 4
Under-Graduate	Department of City and Regional Planning Faculty of Architecture	(1995 - 2000)	3.04 / 4
Gazi Anatolia High School (GAL)		(1988 - 1995)	4.26 / 5

FOREIGN LANGUAGE Fluent spoken, written, and reading in English

METU	4 years Undergraduate	(English)
	1 year Prep School	(English)
GAL	3 years High School	(English)
	3 years Secondary School	(English)
	1 year Prep School	(English)

COMPUTER BACKGROUND 14 years experience in computers

Operating System and Management Programs	Dos 6, Windows 9x//NT/2000/XP	very good
	Linux (Fedora Core, Ubuntu)	good
	Microsoft Office 2003 (Word, Excel, PowerPoint, Access, Project, Visio, InfoPath and Publisher)	very good
	Open Office 2.2	good
GIS (Geographic Information System)	MapInfo 7.0	very good
	ESRI ArcInfo 9x (ArcMap, Catalog, ToolBox)	very good
	ESRI ArcSDE 9x (Spatial Database Engine)	very good
	ESRI ArcIMS 9x (Internet Mapping Service)	very good
	Extensions (Spatial, 3D, GeoStatistical Analyst etc.)	very good
Database	Microsoft SQL Server 2000	very good
	Microsoft Access 2003	very good
	Oracle 8	good
	Postgre SQL 8.2	good
Statistics	SPSS v11.5	fairly good
	GWR 3.0 (Geographically Weighted Regression)	very good
	GeoDA (Polygon based geostatistics)	very good
CAD (Computer Aided Design)	Bentley Micro Station V8.0	fairly good
	Bentley Geographics, InRoads	good
	AutoCAD Map R 5	fairly good
	AutoCAD R14 (KOSGEB Certified in 2000)	very good
	NetCAD 4.0	good
Graphic Design	Corel Draw 9	very good
	PhotoShop 5	fairly good
Programming	Visual Basic 6.0 (Microsoft Certified in 2002)	very good
	Visual Studio .Net 2003 (ASP.NET, C# & VB.NET)	moderate

SQL (Oracle Certified in 2002)	very good
PL-SQL (Oracle Certified in 2002)	moderate
Java (Infopark Certified in 2002)	moderate
Python	moderate

PROFESSIONAL EXPERIENCE (<u>After Graduate)</u>

Baku-Tbilisi-Ceyhan (BTC) Crude Oil Pipeline Project

Client BTC Co. - MEP Participants (International Consortium)
British Petroleum (BP) as Head of Consortium

Contractor BTC Project Directorate on behalf of BOTAS, state-owned Turkish Petroleum Pipeline Corporation (Lump Sum Turnkey Agreement Main Contractor in Turkey)

Project The BTC pipeline is about 1,768 km in length, originates in Azerbaijan near Baku (443 km), and passes through Georgia (249 km) and Turkey (1,076 km) to connect to the northeastern coast of the Mediterranean Sea near Ceyhan. The pipeline is designed for a maximum annual throughput of 50 million tones. At peak during the construction phase of the projects some 22,000 people were employed. In Turkey, the BTC pipeline is being constructed by BOTAS on BTC Co's behalf under a lump sum turnkey agreement. Approximately 70% of BTC costs are being funded in the form of financing by third parties: European Bank for Reconstruction and Development (EBRD) and the International Finance Corporation (IFC), the private sector arm of the World Bank, export credit agencies of seven countries and a syndicate of 15 commercial banks.

Job Title Mapping and Geographic Information System (GIS) Manager (June 2003 to …)
GIS Expert (June 2001 to June 2003)

Description Responsibility for the management of a team and two local subcontractors involved in the development and implementation of Mapping and GIS Applications for an integrated Land Management System for the entire Project utilizing ESRI, Bentley and AutoDesk software products. This included the handling and graphical display of Pipeline Route Constraint Data, Land Ownership Data, Land Usage and Crop Compensation Data, and the generation of Route Maps, Land Acquisition Drawings and Ownership Tables for the entire pipeline route, facilities and utility installations, conforming to international World Bank and IFC project requirements. This job description includes the following items as shown below, but not limited with them;

1. To plan and implement the Geographical Information System,
2. To ensure that GIS standards and procedures are prepared and implemented,
3. To secure that data input to the GIS is planned and data integrity is sustained,
4. To ensure that a digital mapping system is planned and established within the GIS and that such information is maintained to the most accurate level achievable for the entire Project,
5. To control and monitor the land acquisition process and notify any discrepancies to the related departments,
6. To design and update non-graphical database in order to follow the whole land acquisition process and to ensure that database is running coordinated with geographical data,
7. To prepare and update the acquired corridor within the GIS environment in order to deliver the corridor information to our client at agreed GIS format,
8. To identify and manage the right of way based on coordinate information, registered parcel number and boundaries, distance, kilometer point and location
9. To handle various map requests for entire pipeline and its annexes from BOTAS General Directorate, BTC Project Directorate, BTC Co., BIL (BOTAS International Limited), Contractors and Public Institutions,
10. To perform spatial queries like point in polygon, overlay, proximity distance etc,
11. To secure that data input to constructed geospatial data warehouse is planned and performed,
12. To check and sustain the integrity of whole data in the database and in the GIS.

Period June 2001 to ... (still working in the project)

Technical Feasibility Study of NABUCCO Natural Gas Pipeline Project

Client BOTAS Petroleum Pipeline Corporations
Contractor Su-Yapi Engineering and Consulting Inc. Co.
Job Title Technical GIS Advisor (Additional responsibility while working for BTC Project)
Description Technical advice is given to BOTAS's contractor, Su-Yapi, about how to collect, to prepare and to generate the GIS Data, technical drawing, route selection and environmental maps within the GIS Environment. By this way, NABUCCO Project Technical Feasibility Study is completed by doing desktop study for routing, site selection and environmental investigations. During this study, Su-Yapi's progress is monitored and controlled. The size of generated GIS data by Su-Yapi has exceeded one terabyte (approximately 1400 GB). These technical support also includes the management and the integration of all collected geographic data into the constructed BOTAS Geographical Data Warehouse (for more information, please see below, study & programming section item 5).
Period 2005

Returning to Village and Rehabilitation Project, Sub-Region Development Plan

Client Southeastern Anatolia Project Regional Development Administration
Contractor Middle East Technical University (METU) and Turkish Social Science Association (TSBD)
Prof. Dr. Melih Ersoy, METU, Department of City and Regional Planning
Prof. Dr. Oguz Oyan, Chairman of TSBD & Ankara University, Political Sciences Faculty
Job Title City Planner
Description To identify the development potential of settlement by inquiring the existing situation of the social and economical pattern of settlement, to prepare reports, to make spatial queries in the GIS Environment and to map the situation as drawings, to design sample survey, to interview with villagers, to produce statistical information, and to negotiate with the administration and governor of the province in order to approve the sub-region development plan.
Period February 2001 to June 2001

Before Graduate:

METU Cyprus Campus Urban Design Project

Client North Cyprus Turkish Republic Government (KKTC)
Contractor METU – Urban Design Master Studio
Assoc. Prof. Dr. Baykan Gunay, METU, Department of City & Regional Planning
Job Title Urban Designer
Description Master Plan of university campus in 1/1000 scale, architecture project of buildings
Period September 2000 to June 2001

Gallipoli Peninsula Historical National Park Project

Client Ministry of Forestry – General Directorate of Nature Protection and National Park
Contractor METU – Gelibolu Office
Prof. Dr. Raci Bademli, METU, Department of City & Regional Planning
Job Title Research Assistant
Description Long term development plan, identify existing situation, SWOT analysis, drawing up a report, guide map design, preparing international competition exhibition
Period February 2000 to November 2000

STUDY & PROGRAMMING *

1. **Electrical Network Failure Information System** is designed for Capital City Electrical Distribution Company (BEDAS). Designed Failure Information System is implemented as an example of application that works on MapInfo and Access, and written with Visual Basic and MapBasic.
2. The number of hospital at the province scale in Turkey, is defined and estimated with respect to health and socio-economical indicator and **Spatial Data Analysis** such as hot spot analysis, weighted kernel estimation, cluster and outlier analysis, simultaneous spatial autoregression, geographically weighted regression, etc.
3. The relationship between hospital and socio-economical variable is tested and defined by doing **Statistical Analysis** such as null hypothesis, normal distribution, correlation and multiple regressions.
4. In BTC Project **Land Exit Management Plan**, an application is developed in order to identify and match the parcel with the land owner and user in a more faster and reliable way and also to record the information about signed Land Exit Protocols into the database. The application is written with Visual Basic and works on Microsoft Access. The crew works are controlled, reported and statistical data is derived by using this application.
5. **Geographical Data Warehouse** is designed, created and implemented by integrating those three softwares, namely, ESRI ArcSDE (Spatial Database Engine), ArcIMS (Internet Mapping System) and Microsoft SQL Server 2000 (Database). The size of GIS data has reached approximately 1.4 terabytes

(1400 GB). Technical drawings, alignment sheet, vector contour lines, DEM, scanned images, rectified orthophotos, various scale topographical raster maps, thematic vector layers and theirs attribute information are integrated into this system. These GIS data are published to BTC Project land related departments and BOTAS Natural Gas Distribution and Survey Department with the help of this system.

6. **Integrated Land Management System** is developed within the principles of **AM&FM (Automated Mapping and Facility Management)** by using Bentley Products such as Micro Station, Inroads and Geographics. With this system, automated route mapping, list of land owner, shareholder and user, and list of coordinate that will be applied to the ground including right of way curvature and alignment information are produced for BTC Project whole pipeline route and its annexes (pump station, block valve station, access road, overhead power supply line, camp site and anode connections) by applying the international revision document control system, and those drawings and lists are distributed to the our main construction contractors as the project official documents (approximately 20 000 documents).

* For source code and report, please see my web page; **www.geocities.com/osmankepoglu**

ACTIVITY

1. July 2005 (1 week) Presenter at the conference of ESRI GIS User Conference 2005 (see publication section as below) San Diego, USA
2. August 2002 (2 weeks) 2 Weeks English Course in Vancouver, CANADA (a fortunate of the campaign organized by Basari Electronic Ltd and Nokia)
3. April 2002 (1 week) Workshop and Business Meeting with BP for GIS Data Format and Delivery, London, ENGLAND
4. August 2000 (1 month) Journey to EUROPE by Inter-Rail Organization. Seven countries were visited, namely, Greece, Italy, France, Belgium, Holland, Germany and Austrian

MEMBERSHIP METU Alumni Association
Chamber of City Planners (TMMOB)

HOBBIES Swimming, riding cycle, playing chest and bowling

SMOKE I don't smoke

PUBLICATION "Representation of Socioeconomic Indicators on Health Status in Turkey", Planning and Decision Making for Health Organizations II, Wednesday July 27, 2005 - 10:30 AM, Room 24-C, ESRI User Conference 2005, **http://gis.esri.com/library/userconf/proc05/abstracts/a1855.html**

CERTIFICATE

2006 - 2004	Many certificates on Health and Safety Issues	from BTC Project Directorate
June 2002	Introductions to Java Programming	from Infopark
May 2002	Developments of Visual Basic 6.0	from Infopark
April 2002	Fundamentals of Visual Basic 6.0	from Infopark
March 2002	SQL, PL-SQL	from Oracle
January 2002	First Aid Basic Education Certificate	from Kizilay
September 2001	Antiskid Seminary-Safe Driving Techniques	from Hurmoglu
June 2000	AutoCAD R14	from KOSGEB

REFERENCES

From Work	Dr. Zeki Yurekli, BTC Project Head of Designated State Authority, and BOTAS Head of Survey and Land Expropriation Department. Tel: +90 (312) 297 22 98
From Academy	Assoc. Prof. Dr. Cagatay Keskinok, Department of City and Regional Planning, METU Tel: +90(312) 210 22 44