

Muhammet TURŞAK

- Extended Curriculum Vitae and Portfolio -

 +90 554 200 78 29
 Ankara / TURKEY
 tursoft@gmail.com

 www.tursoft.net
 tr.linkedin.com/in/tursoft
 twitter.com/muhammettursak

 **Date of Birth** : 1982
 **Place of Birth** : Kocaeli / TURKEY

 **Nationality** : Turkish
 **Military Obligation** : Performed (*completed in 2008*)
 **Driving License** : A Class (*since October 2005*)

TABLE OF CONTENTS

1. PERSONAL CAREER GOAL	2
2. PROFESSIONAL SUMMARY	2
3. PROFESSIONAL WORK EXPERIENCE	3
4. AWARDS	4
5. PROJECTS	4
Major Domains	4
Major Project Types	4
Major Projects	5
Major Projects Details	6
Other Projects	18
6. TECHNICAL SKILLS	20
General Overview	20
Approaches and Techniques	23
Other Experiences and Technical Knowledge	23
7. EDUCATION BACKGROUND	24
Academic Background	24
Certificates	25
Offered Seminars & Conferences	26
Attended Seminars & Conferences	26
Language Education, Exams and Skills (English)	27
8. REFERENCES	28

1. PERSONAL CAREER GOAL

Vision:

My vision is to provide key contributions to global software projects and products that are excellent examples in their domain in terms of business value and technology and have a significant impact on the ecosystem.

Mission:

As a chief software architect, my mission for companies that are producing large scale software systems is to lead and to facilitate core development teams to develop frameworks, major building blocks, and tools, to implement POCs to provide cost and time-effective, easy to maintain, scalable, robust, secure, high-performance, and traceable platforms for enterprise-level products on time and within the budget.

Positions:

- Software Group Director (7+ years of experience)
- Research & Development Director (3 years of experience)
- Project Manager (6+ years of experience)
- Software Architect (7+ years of experience)
- Software Team Leader (7+ years of experience)

2. PROFESSIONAL SUMMARY

20 years of Professional Experience	15 years of Management Experience	17 years of .NET Experience	20 years of Web Dev. Experience
since 2000	since 2005	since 2003	since 2000

- 50+** Total Projects
- 10+** Research & Development Projects
- 10+** International Projects
- 5+** National Projects
- 5** Major Domains

3. PROFESSIONAL WORK EXPERIENCE

- **Gamyte LLC**
2019 - Present Director of Technology & Senior Software Architect
- **ERC Group Engineering, Consultancy and R&D Services Co.**
2013 - 2019 Senior Software Architect and Group Leader
- **DataSel Information Systems Co.**
2012 - 2013 Senior Software Architect and Group Leader
2011 - 2012 Senior Software Developer
- **Fonet Software Co.**
2010 - 2011 Research & Development Director
2009 - 2010 Software Team Leader
- **Halıcı Informatics & Software Co.**
2007 - 2008 Software Production and Planning Director
2005 - 2007 Project Manager and System Analyst
2004 - 2005 .NET Application Developer
- **METU Computer Education and Instructional Tech. Dep.**
2003 - 2004 Web Programmer and Designer
- **METU Informatics Institute**
2003 - 2004 Software Developer
2002 - 2003 Web Developer & Designer
- **Labris Technology**
2003 - 2004 Web Developer & Designer
- **IEEE METU Student Club**
2003 - 2004 Chief of Web Team
- **METU Communication Club**
2002 - 2003 Web Developer & Designer
- **Netteyim.net**
2001 - 2002 Webmaster
- **Informatics Association of Turkey / Youth Branch**
2000 - 2001 Webmaster



halıcı



4. AWARDS

🏆 XI. Technology Awards Finalist in Turkey - 2014

 Issuer: Tubitak, TTGV, TUSİAD

AviCenna VKBS is selected as finalist in XI. Technology Awards organized by TTGV, TUBITAK, TUSİAD in Turkey. It is a R&D projects about DRG Costing Calculation that also used by MOH of Turkey in 2011 and the first DRG costs and DRG weighted values are calculated by AviCenna VKBS in Turkey.

5. PROJECTS

Major Domains

 Health Informatics 20+ projects 7+ years of exp.	 E-Learning 10+ projects 8+ years of exp.	 ERP & CMS 10+ projects 7+ years of exp.	 E-Commerce 5+ projects 5+ years of exp.
--	--	---	---

Major Project Types

 Software Development Frameworks 5+ projects 10+ years of exp.	 Enterprise Portal Systems 15+ projects 15+ years of exp.	 Backend Services 8+ projects 15+ years of exp.	 Online Video & Conferencing 5+ projects 8+ years of exp.
---	--	--	--

Other project types:

- Desktop Applications
- Console & Windows Desktop Applications
- Network Applications
- Automation Systems and Web Robots
- Editor/Designer Applications
- Video and Live Broadcasting Applications
- Games, Multimedia Projects & Graphics Design

Major Customers

International:

- SPMS - Portugal
- SMS - Spain
- So.Re.Sa - Italy
- Lifewatch AG - USA
- Ministry of Health - KSA
- Ministry of Interior - KSA
- Ministry of Health - Uzbekistan
- UNHCR
- Papers & Rogers
- Democratic Left Party

Turkey:

- Lifewatch Turkey
- Ministry of Health
- Ministry of Education
- General Directorate of Security
- Public & Private Hospitals
- National Productivity Center
- Turkish Democracy Foundation
- Turkish Intelligence Foundation

Major Business Partners

International:

- Gnomon - Greece
- CERTH - Greece
- Promptly - Portugal
- Medisante - Switzerland
- GPI - Italy
- Ucell - Uzbekistan
- Etisalat - UAE
- HAAD & GreenRain - UAE
- Welch Allyn - USA
- Cisco - USA
- IBM - USA

Turkey:

- TTNET
- Avea
- Eczacıbaşı
- Koç System
- METU

Major Projects

1. Gamyte Platform (SaaS)
2. Avicenna PDFW Web Framework
3. Fonet Framework
4. Avicenna Product Development Framework
5. Fonet Studio
6. Avicenna Telemedicin Platform (ATTP)
7. Lifewatch Telemetry Monitoring Portal
8. Avicenna ATTP Mobile
9. Avicenna Case-Mix Information System (Vaka Karması Bilgi Sistemi)
10. Avicenna Clinical Coding Quality Rule Engine (CQRE)
11. Eczacıbaşı Sağlık Takipçim (ATHP)
12. Remote Patient Management System (RPMS)
13. Fonet Advanced Log Module
14. Avicenna Emergency Information Management System
15. Avicenna Ambulance Information Management System
16. Avicenna Clinical Management System (Cms)
17. Halsoft e-Learning Portal
18. Halsoft Portal
19. Online Course Management System (OCMS)
20. General Directorate Of Security Distance Education Portal
21. Distance Education Portal Of Ankara University
22. Democratic Left Party (Official Web Portal)
23. BÖTEB Online
24. The UN Refugee Agency Turkey (Official Web Portal)
25. Customer Support Center
26. METU Communication Club (Official Web Portal)
27. XMessenger
28. Efsane
29. EDİSA (E-Learning Content Authoring Tool)

Major Projects Details



AVICENNA PDFW WEB FRAMEWORK

 *DataSel Information Systems Co.*

 *ERC Group Engineering, Consultancy and R&D Services Co*

 *Software Development Framework*

It is an **Enterprise Application Development Framework**. Ultimate goal is to develop a single enterprise framework to develop for both **Web** and **Mobile** platforms that can be deployed as web projects or native mobile applications.

The framework provides fundamentals for both front-end and backend of the system. Front-end is based on web technologies **HTML5**, **CSS3**, **JS** libraries. **AngularJS** and **JQuery** are the main JS libraries for the programming of the front end. **Twitter Bootstrap** and some animation libraries were utilized for the front end visualization. **Responsive** and adaptive visual layout principles are applied and supported by the use of bootstrap and the special build-in features and options of the framework. Front-end mainly provides advanced data-enabled advanced components (like **Dynamic Grids & DataForms**) and also core framework environment & libraries for front end.

Backend is based on **.NetCore**, **ASP.NET MVC**, **WebApi**, **EntityFrameworkCore**, **RepositoryPattern**, **C#**, **JSON**. Also security and optimization layers are implemented.

Major components: Data Grid, Data Form, Dynamic Field Editor, Base Repositories, Base WebApis, Scheme Serializer, Authentication & Authorization, Menu & Routing Manager, Notifications

Technologies: VS.NET, .NETCore, C#, ASP.NET MVC, WebApi, EntityFrameworkCore, LINQ, docker, AngularJS, RequireJS, Bootstrap, linqJS, AngularStrap, Jquery, MS SQL Server, Oracle, MongoDB, JSON, oAuth

GAMYTE PLATFORM

 *Gamyte LLC*

 *SaaS Line of Business Platform*



Gamyte Platform is an AI powered Cloud-based SaaS platform operated by Gamyte LLC that provides full featured estimation service for construction market. Platform is heavily used by both internal and external users. It consists of various advanced modules like takeoff estimation editor, project and bids management powered by reference databases for materials, prices, general contractors etc.

As a **Director of Technology and Chief Software Architect**, I am responsible to build, guide and lead the team, decide on best technology stack and all tooling that fits best for needs of the team & the product. We are actively following Scrum best practices to plan, to implement new functionalities and to ensure to deliver them on time based on strategical decisions.

The platform mainly based on **.netcore** and **asp.net core** stack on backend layer, and based on **angular** on frontend. As a data layer we use **MS SQL** and **Entity Framework Core** as an ORM. Staging and production environments are hosted **Azure**. AI modules are developed by **Python** and related framework and libraries. **Azure DevOps** and its components such as Boards, Repos, Pipelines, Pipelines, Artifacts and Test Plans are heavily used in development and project management needs.

PROEMPOWER - DM4ALL SOLUTION

█ ERC Group Engineering, Consultancy & R&D Services Co. And

Gnomon Informatics SA Consortium

◆ Specialize Diabetes Management Platform



It is PCP project founded and audited by European Union. The DM4ALL is our solution to solve challenge for innovative ICT for patient empowerment and self-management of type 2 diabetes mellitus procured by the ProEmpower consortium. As an international consortium, we are awarded for first 2 phases of 3-phased project by ProEmpower Project Committee.

Within this project we utilized our product AHIN for integrations between DM4All solution components and National Health Information Systems for each procurer country. Procurer Countries: Turkey, Italy, Spain, Portugal

Backend is based on **ASP.NET MVC**, **WebApi**, **EntityFramework**, **RepositoryPattern**, **C#**, **JSON**. Also security and optimization layers are implemented. In frontend, single-page application architecture is implemented by using **AngularJS** and **TypeScript**.

Technologies: VS.NET, C#, ASP.NET MVC & WebApi, EntityFramework, LINQ, AngularJS, TypeScript, RequireJS, Bootstrap, linqJS, AngularStrap, Jquery, Ajax, MS SQL Server

AHIN - AVICENNA HEALTH INTEGRATION NETWORK

█ ERC Group Engineering, Consultancy and R&D Services Co.

◆ Integration Platform and Ecosystem for Health IT Ecosystem



AHIN has designed and underdevelopment to provide a single, standart and secure point of integration plaform for health information owned by patients and healthcare providers. Ultimate goal is to create an ecosystem consists of broad amount and type of healthcare devices, software solutions, mobile apps and all other stake holders of the market like healthcare service providers, insurance companies etc.

In this scope of solution, major components are integration services, management consoles, auhtentication services, online documentation and test platform, SDKs, sample projects etc.

Backend is based on **ASP.NET MVC**, **WebApi**, **EntityFramework**, **RepositoryPattern**, **C#**, **JSON**. Also security and optimization layers are implemented. In frontend, single-page application architecture is implemented by using **AngularJS** and **TypeScript**.

We have a mature continuous deployment and devops pipeline based on **jenkins**, **gitlab**, **nuget**, **docker**, **docker swarm**, **docker registry**, **traefik** etc. And we monitor our servers using **prometheus** and **grafana**.

Technologies: VS.NET, C#, ASP.NET MVC & WebApi, EntityFramework, LINQ, AngularJS, TypeScript, RequireJS, Bootstrap, linqJS, AngularStrap, Jquery, Ajax, MS SQL Server

It is a telemedicine platform consists of various submodules including order management module, ecg monitoring and medical report delivery module, inventory module, kitting workflows module, supply-chain management module, integrations module, reporting module and security modules.

System is developed by using Avicenna PDFW Web Framework.

Backend is based on **ASP.NET MVC**, **WebApi**, **EntityFramework**, **RepositoryPattern**, **C#**, **JSON**. Also security and optimization layers are implemented. In frontend, single-page application architecture is implemented by using AngularJS and TypeScript.

Technologies: VS.NET, C#, ASP.NET MVC & WebApi, EntityFramework, LINQ, AngularJS, TypeScript, RequireJS, Bootstrap, linqJS, AngularStrap, Jquery, Ajax, MS SQL Server

Standards: JSON, oAuth

LIFEWATCH TELEMETRY MONITORING PORTAL



Project is a international project with multiple partners from various countries (Turkey, USA, Switzerland, Israel, Macedonia).

It is a full featured telemedicine platform developed based on Avicenna ATTP. It consists of multiple sub-systems: Avicenna ATTP, Telemedicine System (Jasmine), Microsoft Dynamic NAV with CRM module and 3rd Party Call-Center solutions. System also has integrations with other sub-systems and some extra external services like Cargo, SMS, VPOS etc.

Major modules are:

- Integrations (telemedicine system, microsoft NAV, VPOS, cargo etc.)
- Order Management
- Medical Report Delivery
- Stock Management
- Reporting
- Security Management

Technologies: VS.NET, C#, ASP.NET MVC & WebApi, EntityFramework, LINQ, AngularJS, TypeScript, RequireJS, Bootstrap, linqJS, AngularStrap, Jquery, Ajax, MS SQL Server, JSON, oAuth

AVICENNA ATTP MOBILE

- *DataSel Information Systems Co.*
- ◆ *Mobile Client Application*



It is a mobile client application for Avicenna ATTP. Target users are doctors that has accounts on ATTP portal. Application is developed as an hybrid mobile application by using Ionic2 and Cordova.

Technologies: Apache Cordova, Ionic2, Angular4, TypeScript, HTML5, CSS3, JS, JSON, oAuth, VS Code, npm, webpack

FONET FRAMEWORK

- *Fonet Software Co.*
- ◆ *Software Development Framework*



It is an **Enterprise Rapid Application Development Framework**. Ultimate goal is to develop a single enterprise framework for software development targeted to both **Desktop** and **Web** platforms.

Major features: DataGrid, DataForm, Rich and Extendable Form Input Editors, DAL fundamentals, Special data binding system, debugging screen and features, table, view and advanced relations supported by DAL, support for **multiple different database systems**, built-in **developer tools**, dynamic navigation & menu system with advanced **authorization**, different data source support, build-in charting & data visualization, managable/customizable visual layouts, auto generated search&filter forms etc.

Technologies: VS.NET, C#, ADO.NET, DevArt, Oracle, MS SQL, MySQL, PL/SQL, T-SQL, FastReports, CrystalReports

FONET STUDIO

- *Fonet Software Co.*
- ◆ *Software Development IDE*



A complete Runtime Form & Screen Design Editor based on Fonet Framework.

Major features:

- Fully drag & drap enabled, Visual Studio like Form Design Editor
- Form design is stored on the database (Oracle, SQL Server etc.)
- Immediate data entry supported
- Authorization system integration supported
- Create, Read, Update, Delete operations are supported on forms designed
- Listing, paging, basic and advanced search features are enabled
- Toolbox is provided
- Event driven custom script injection is supported
- Dynamic report template design is supported, provides advanced report designer & viewer integrated with dynamic form

- Seamless navigation system integration
- Placing dynamic forms from on main menu is supported
- Opening dynamic forms programmatically is enabled
- Build-in Basic components;
 - Textbox, databox, numericbox, listbox, combo, multilinebox, checkbox etc.
 - Tab, groupbox and such kind of layout components
 - Build-in advanced components: Advanced vector based drawing and image editor (for PACS related screens), HIS Patient List, HIS Patient Details, HIS Patient Lab Reports, HIS Patient Action Links,

Technologies: VS.NET, C#, ADO.NET, DevArt, Oracle, MS SQL, MySQL, PL/SQL, T-SQL, FastReports, CrystalReports

AVICENNA PRODUCT DEVELOPMENT FRAMEWORK

 DataSel Information Systems Co.  Software Development Framework



It is an Enterprise Application Development Framework for Silverlight, WPF and WP7 platforms. The ultimate goal was to provide a shared component set, libraries and fundamentals for common tasks & needs.

Major components: Grid, Form, Async operation libs, MVVM utilities, entity management, localization, extensions, converters etc.

Technologies: VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server

AVICENNA CASE-MIX INFORMATION SYSTEM / VAKA KARMAŞI BİLGİ SİSTEMİ

 DataSel Information Systems Co.  Health Service Costing System



It is a complete DRG Costing Solution. I designed and implemented the architecture, managed the project, developed reusable advanced components, coordinated and lead the team.

Project was also used in about 80 hospitals from all over the Turkey, even biggest ones. We collected and analyzed more than 50M clinical and financial records. Eventually, we have calculated the first official DRG costs and weighted DRG values of Turkey.

 This project is selected as **finalist** in XI. Technology Awards organized by TTGV, TUBITAK and TUSIAD in TR (11.04.2014)

Major Components:

- Clinical Data Collection Module (UI+Webservices)
- DRG Code Calculation for given Case (by using Grouper)
- Costing Data Collection Tool (UI+Webservice)
- Costing Processing and Clinic Unit Costing Calculation Module
- DRG Weighted Value Calculation

- Analyzing and Reporting Modules for DRG Data

Technologies: VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server, MySQL, COM Port communication

Customer: Ministry of Health / Turkey

AVICENNA CLINICAL CODING QUALITY RULE ENGINE (CQRE)

■ *DataSel Information Systems Co.*

◆ *Rule Engine*



It is a rule engine to execute clinical coding rules and evaluate the quality of clinical data coding.

Major components: Online Rule Engine Editor, Rule Management & Categorization, Rule Executing Engine, Backend Webservices to Execute Rules, Admin Management Screens

Technologies: MS Azure, VS .NET, C#, MS SQL Server, EntityFramework, LINQ, ASP.NET MVC and WebApi, AngularJS, JSON, HTML5, JS, CSS3

NOTE: System is deployed on MS Azure VMs (both App and SQL Server)

ECZACIBAŞI SAĞLIK TAKİPCİM (ATHP)

■ *DataSel Information Systems Co.*

◆ *Telemedicine Information System*



It is an online telemedicine information system. A set of telemedicine devices are used by patients, and doctors can monitor patient's measurements as online and can take actions (such as call patient/relatives, call ambulance etc.) according the emergency of the situation. It is still in use by Eczacıbaşı Sağlık Hizmetleri.

Major modules: Device integration & data collection, data review & action taking, payment & accounting, device & delivery management

Technologies: VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server, MySQL, COM Port communication

REMOTE PATIENT MANAGEMENT SYSTEM (RPMS)

■ *DataSel Information Systems Co.*

◆ *Clinical Information Management System*



It is a health information management system for practitioners to perform examinations of patients from remote locations by using build-in **video conferencing system**, digital patient archive and related extra modules.

Major components: VideoConferencing System (Client+Server), Clinical Management System, PACS Viewer integration, Telemedicine Device Integration

Technologies: MS Azure, VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server

Protocols: Speex, H.264, G.726, G.721, JPEG

Customers: Ministry of Interior / Kingdom of Saudi Arabia

AVICENNA EMERGENCY INFORMATION MANAGEMENT SYSTEM

■ *DataSel Information Systems Co.*

◆ *Health Information Management System*



It is an emergency information management system.

Major Components: Registration, Nurse Triage, Physician Triage, General Examination, Trauma Examination, Vital Signs, Patient Charter, Clinical Pathway, Route & Scheduling, HIS Integration

Technologies: VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server

Customer: King Fahad Medical City / Kingdom of Saudi Arabia

Standards: HL7, Webservices

AVICENNA AMBULANCE INFORMATION MANAGEMENT SYSTEM

■ *DataSel Information Systems Co.*

◆ *Health Information Management System*



It is an ambulance patient's health information collection and delivery system. Touch-based highly user friendly data entry client & scalable backend services are developed in the scope of the project. Project pilot was successfully performed in KSA Hajj region in Hajj period of 2013.

Major Components: DataCollection Client, Backend data collection services, data monitoring module, administrator module and reporting module.

Technologies: VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server

Customer: Ministry of Health / Kingdom of Saudi Arabia

AVICENNA CLINICAL MANAGEMENT SYSTEM (CMS)

■ *DataSel Information Systems Co.*

◆ *Clinical Information Management System*



It is an online multi-language clinical management system. It provides all the software needs of the clinics. Also, it has a HAAD integration for claim submission in UAE region.

Major modules: Examination, Registration, Appointment, Billing, Claim Integration

Technologies: MS Azure, VS .NET, C#, Silverlight, WCF RIA Services, EntityFramework, LINQ, Telerik RAD Controls, Telerik Reporting, ASP.NET, MS SQL Server, MySQL, COM Port communication

Partners: HAAD, Etisalat

FONET ADVANCED LOG MODULE

■ *Fonet Software Co.* ♦ *Logging Module*



Flexible log module that can easily be managed by using admin interfaces.

Major features:

- Log all INSERT, DELETE, UPDATE operations on any table
- Report log data by using flexible and rich report designer & viewer interfaces
- Operate over separate schemas for security and performance issues

Technologies: VS.NET, C#, WinForms, DevArt, ADO.NET, Oracle, PL/SQL

HALSOFT E-LEARNING PORTAL

■ *Halıcı Informatics & Software Co.*
♦ *E-Learning Portal & LCMS*



It was developed based on Halsoft Portal framework. The portal provides various pages and modules for e-learning program managers, instructors, students and administrators. Also it provides very flexible, extendible and open to develop framework. Some features are class, course and content management screens, built-in question editor and question store, **online exam system**, portal-wide SCORM e-learning content compatibility, integrated forum and **chat system**.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Microsoft Media Services, Active Directory, RSS

Customers: Ankara Üniversitesi Uzaktan Eğitim Merkezi, Türk Demokrasi Vakfı, Milli Proje Merkezi, Matematik Eğitim Çemberi, ODTÜ Koleji

HALSOFT PORTAL

- ▣ *Halıcı Informatics & Software Co.*
- ◆ *Portal & CMS Framework*

It was developed to provide flexible portal infrastructure for various different portal needs. System provides flexible and open to be extended framework. Some features are multi-level and module based content management architecture, role-based authorization system, template-based e-mail and messaging system, multi language infrastructure support. Also it provides great amount of built-in modules and management screens.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Microsoft Media Services, Active Directory, RSS

Customers: Demokratik Sol Parti, BM Mülteciler Yüksek Komiserliği Türkiye, Bilgi Toplumuna Yolculuk, Halsoft TV, Emrehan Halıcı Kişisel Web Sitesi

ONLINE COURSE MANAGEMENT SYSTEM (OCMS)

- ▣ *METU Computer Education and Instructional Technologies Department*



This is an Online Course Management System which includes varying tools to manage an online course such as **content management**, **messenger**, user management, user logs, chat rooms, private email, grading, homeworks etc. Project is developed on Visual Studio .NET platform and development language is VB.NET.

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

GENERAL DIRECTORATE OF SECURITY - DISTANCE EDUCATION PORTAL

- ▣ *METU Computer Education and Instructional Technologies Department*
- ◆ *Online Video Enabled E-Learning Portal*



I have worked as a solution architect, software advisor and team leader in that project. A video based distance education portal. It provides live and offline video content, supporting documents, a discussion forum and access to shared e-mail groups. Also, provides management tools for live course broadcasting and course/program structure management. The project was developed by using Visual Studio .NET and SQL Server 2005. Also, Active Directory and Microsoft Live Communication Server were integrated to the system.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Microsoft Media Services, Microsoft Producer, Microsoft PowerPoint, Active Directory

DISTANCE EDUCATION PORTAL OF ANKARA UNIVERSITY

■ *Distance Education Center of University of Ankara (ANKUZEM)*

◆ *Distance Education Portal*



A distance education system used by students from different cities of Turkey and some other countries. This project is developed based on Halsoft Eğitim Portalı and used for 4 years. Courses are developed as SCORM packages for the system.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Active Directory, RSS, Photoshop

BÖTEB ONLINE

■ *METU Computer Education and Instructional Tech. Dep.* ◆
Video Portal



A video portal which provides various educational videos. Videos are served by using Microsoft Media Services.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Microsoft Media Services

THE UN REFUGEE AGENCY TURKEY - OFFICIAL WEB PORTAL

■ *UNHCR* ◆ *Official Web Portal*



It was developed based on Halsoft Portal. It provides advanced administrative screens and modules to manage page hierarchy and page contents of the portal. Also, the system has an advanced search engine and RSS support.

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Microsoft Media Services, Active Directory, RSS, Photoshop

CUSTOMER SUPPORT CENTER



It is an online Customer Relations Management system. Its major modules are product management, customer management, Sold Product Management, Product Update Management, Trouble Ticket Management and Mass Messaging Systems.

Technologies: PHP, MySQL, HTML, CSS, JS, AJAX, Photoshop

METU COMMUNICATION CLUB - OFFICIAL WEB PORTAL



An advanced society portal. It provides individual user accounts to members, an extensive role based permission system and custom editor pages for each different modules of the portal. Portal also contains an online question and exam bank system. Also some attendance record modules for activities.

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

XMESSANGER



It was developed based on Client-Server architecture. This platform provides a real-time shared whiteboard and a text messaging with emoticons. White board has basic drawing tools such as free draw pen, straight line, rectangle and circle and also has formatting tools such as color and thickness tools. The platform also includes upload/download managers and allows multi file transfers at the same time. All messages and commands are transferred as XML. Thanks to active use of design patterns, system is open to extend and improve.

Technologies: Visual Studio .NET, C#, XML, Networking & Sockets, GDI+, Photoshop

3-5-8 P2P CARD GAME



The digital version of classical 3-5-8 Card Game. Players connects to server player and starts to the game with each other. It is developed using Client/Server software architecture. It was developed by using object oriented software development methodologies.

Technologies: Java, XML, Networking & Sockets, Swing, Photoshop

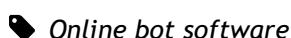
EFSANE



An Educational game developed in a 3D Environment and aims to teach some physics topics to students.

Technologies: *Adobe Atmosphere, 3D Max, HTML, JS, CSS, Photoshop*

MİLLİYET NEWSPAPER WEBSITE - COMPETITION WEB ROBOT



A Robot Software that parse and posts news keywords used in a weekly competition. It has a well-designed, structured set of usercontrols, libraries and various algorithms. Info: By thanks to this robot software, I was one of the winner of this competition for which a lot of software developers have developed similar robot softwares from all over the Turkey.

Technologies: *Visual Studio .NET, C#*

EDİSA (EĞİTİM DANIŞMANLARI İÇERİK SUNUM ARACI)



An authoring software which is used by subject matter experts to create standard content packages about spesific e-learning courses.

Technologies: *Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Active Directory, RSS, Photoshop*

Other Projects

BİLGİ TOPLUMUNA YOLCULUK PORTALI

 Peppers and Rogers Group  Activity Portal

Technologies: Microsoft SQL Server, Visual Studio .NET, C#, ASP.NET, HTML, CSS, JS, Active Directory, RSS, Photoshop

EYEDDER - OFFICIAL WEB PORTAL

 Eğitim Yöneticileri ve Eğitim Deneticileri Derneği  Official Web Portal

Technologies: dotNET Nuke, Visual Studio, VB.NET, C#.NET, ASP.NET, SQL Server 2000, HTML, CSS, JS, Photoshop

NIT WEB PORTALI

 Netron Institute of Technology  Official Web Portal

Technologies: ASP, HTML, CSS, JS, Photoshop

ONLINE COURSE MANAGEMENT SYSTEM

 METU Computer Education and Instructional Technologies Department

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

TEKNOKENTLER ZİRVESİ '04 RESMİ WEB SİTESİ

 ODTÜ IEEE Öğrenci Topluluğu  Etkinlik Web Sitesi

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

METU INFORMATICS INSTITUTION - E-DERS PROJECT

 METU Informatics Institution  Distance Education Portal

Technologies: HTML, CSS, JS, Photoshop

MEKANSIZ KÜTÜPHANE

 METU Graduates Society  Online Library Management System

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

IEEE WEBTEAM - OFFICIAL WEBSITE

 IEEE METU Student Club  Official Website

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

BOOTCAMP - OFFICIAL WEBSITE

 Portakal Teknoloji  Activity Portal

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

INFORMATICS ASSOCIATION OF TURKEY

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

BİLİŞİM TEKNOLOJİLERİ İŞİĞİNDE EĞİTİM '04 - OFFICIAL WEBSITE

 IEEE METU Student Club  Activity Website

Technologies: PHP, MySQL, HTML, CSS, JS, Photoshop

NEDİR?TV WEB PORTAL

 Nedir?TV  Software Developers' Community Portal /

Online Videos Based Technology Tutorials and Training Portal

Technologies: Photoshop

KRIPTO

◆ 3D Educational Game

Technologies: Dark Basic, 3d Max, Photoshop

DARKROOM

◆ Educational Courseware

Technologies: Macromedia Flash, Movie Maker, Photoshop

ÇILGIN TOSBA

◆ An Educational Software

Technologies: Visual Basic 6.0, Photoshop

ANALYTICS PRESENTER

◆ Google Analytics Online Data Parsing and Reporting API

Technologies: Visual Studio .NET, C#, ASP.NET

DRAWINGEDITOR.NET

◆ A Multi-Functional .NET drawing control library

Technologies: Visual Studio .NET, C#, GDI+

DİZGİ PRO

◆ Photo Composition and Automation Software (Grade Booklets, Foto Galleries etc.)

Technologies: Visual Studio .NET, VB.NET, GDI+

6. TECHNICAL SKILLS

General Overview

◆ CLOUD

AWS
Azure
DigitalOcean
Heroku
Google Cloud
Alibaba Cloud

good
excellent
good
good
beginner
beginner



◆ IDE

Visual Studio .NET
VSCode
Eclipse
Blend for Visual Studio
Macromedia Dreamweaver

excellent
excellent
excellent
excellent
excellent



◆ ALM Tools

Git
Gitlab
Github
TFS
Mercurial
Nuget
Npm
ProGet
Docker Registry
Nexus
Grunt
Maven
Apache Ant
Visual SourceSafe
SVN

excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
good
excellent
good



◆ DEVOPS & SYSTEM

Jenkins
Docker
Docker Swarm
Kubernetes
VMware

Linux Shell Scripting
PowerShell Scripting
Prometheus
Grafana
Zabbix
Traefik
Portainer
Swarmpit

excellent
excellent
good
beginner
excellent

good
good
good
good
good
good
excellent
good



◆ PROGRAMMING/SCRIPTING LANGUAGES

C#.NET
Java
JavaScript
VB.NET
C++
C
Python

excellent
good
excellent
excellent
average
average
average



◆ WEB - SERVERSIDE TECHNOLOGIES

ASP.NET
ASP.NET MVC
ASP.NET WebApi
ASP.NET Core
SignalR
NodeJS
ASP
JSP
PHP

excellent
excellent
excellent
excellent
excellent
good
good
good
excellent



◆ WEB - CLIENTSIDE TECHNOLOGIES

Angular
AngularJS
Ionic2
TypeScript
HTML5
CSS3
Silverlight & XAML
Ajax
JSON
JQuery
KnockoutJS
RequireJS
Bootstrap
Sass & Less

excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent
excellent



◆ WEB - SERVERS

IIS
Apache Tomcat
Nginx
Jetty

excellent
excellent
excellent
excellent



◆ MOBILE DEVELOPMENT

Ionic
Apache Cordova
Xamarin

excellent
good
beginner



◆ DESKTOP - CLIENTSIDE TECHNOLOGIES

WinForms
WPF
Swing
JavaFx
Electron

excellent
excellent
excellent
good
beginner



◆ SERVICE ORIENTED ARCHITECTURE

WCF

Web Services
oData
oAuth
REST Services & JSON
GraphQL
gRPC

excellent



excellent
excellent
excellent
excellent
beginner
beginner

◆ COMPONENTS

Angular Material
Telerik RAD Components
Telerik KendoUI
PrimeNG
D3JS
Telerik Reporting
FastReports
Crystal Reports
Infragistics

excellent
excellent
excellent
good
good
excellent
excellent
excellent
excellent

Telerik®
by Progress



PRIME NG



◆ DATABASE

Oracle & PL/SQL
MS-SQL & T-SQL
MySQL
PostgreSQL
MongoDB
Couchbase
Redis
Ms Access
EntityFramework & LINQ

excellent
excellent
excellent
beginner
beginner
beginner
beginner
excellent
excellent

ORACLE®



MySQL



mongoDB



◆ GRAPHIC & ANIMATION SOFTWARES

Adobe Photoshop
MS Blend
Macromedia Flash

excellent
excellent
excellent



◆ TESTING

jasmine
MSTest Framework
Microsoft Test Explorer
SoapUI
Postman
Fiddler

beginner
good
good
good
good
good

◆ OS

Windows Servers
Linux (Ubuntu, CentOS)
MacOS

excellent
good
beginner

Approaches and Techniques

- Scrum and Agile Methodologies
- Design Patterns
- Enterprise Design Patterns
- Anti-Patterns
- Object Oriented Design & Development
- SOLID Principles and their implementations
- Active Refactoring
- Dependency Injection & Inversion of Control
- UML and UML Design Tools
- Test Driven Programming
- Graceful Degradation Approach
- Mobile First & Web First Design

Other Experiences and Technical Knowledge

- Windows & web applications performance profiling & optimization
- Multi layer / N-tier Software Architecture Design and Development
- Microservices
- Active usage of Reflection in .NET
- Template based automated Microsoft Office files generation
(Example: Template based exam booklet generation)
- Various tools based on E-learning standards like SCORM
- Application of AJAX in different platforms
- Webservices based / supported system design
- Reports and graphics generations in web & windows environment
- Dynamic image generation and manipulation
- Session based file access and logging applications
- Web based parsing and reporting robot softwares
- Web and windows based automation softwares
- Various web and windows based editor applications
- Modular and Plugin-supported Web and Windows Applications
- Parsing, organizing and reporting website statistics data from Google Analytics

7. EDUCATION BACKGROUND

Academic Background

2012-2013



Graduate School

- Middle East Technical University, Ankara
- Department of Software Management

Course

- Project Management
(*OOD, Use Cases, UML, OCL, Design Patterns*)

Grade

AA

2004-2007



Graduate School

- Middle East Technical University, Ankara
 - Computer Education and Instructional Technologies Department
- Graduate Date : September, 2007
Graduation Grade : 3.68 / 4.00

Major Courses

- Design Patterns
(*OOD, Use Cases, UML, OCL, Design Patterns*)
- Total Quality Management
(Strategic Planning)
- Multimedia Information Systems
(OS, Networks, Data Types, Compression)
- Distance Education
- Telecommunication in Education

Grade

AA

AA

BB

AA

AA

1999 - 2004



Undergraduate School

- Middle East Technical University, Ankara
 - Computer Education and Instructional Technologies Department
- Graduation Date : June, 2004
Graduation Grade : 3.80 / 4.00

Major Courses

- Programming Languages I (Pascal) AA
- Programming Languages II (Visual Basic) AA
- Authoring Languages on PC Environment AA
(Macromedia Authorware)
- Instructional Technology and Material Prepar. AA
(Macromedia Flash MX)
- Introduction to C AA
- Introduction to C++ AA
- Advanced Object Oriented Programming AA
(Java)
- Fundamentals of Data Systems AA
(SQL)
- Authoring Languages on Internet AA
(HTML, JavaScript, ASP, PHP, .NET)
- Computer Network Systems AA
- Routing Configuration and WAN Technologies AA
- 3D Educational Game Development I AA
(DarkBasic)
- 3D Educational Game Development II AA
(3D Max, Rhinoceros, Adobe Atmosphere)

1995 - 1999



High School

■ Kocaeli Technical High School, Kocaeli
■ Computer Programming Branch

Major Courses

- Pascal
- Visual Basic

Certificates

1

PROJECT MANAGEMENT

📅 Date : 2, 3, 9 February 2005
📍 Place : METU Continuing Education Center
👤 Presenter : Doç. Dr. Levent Kandiller

Context:

- Time Management
 - Project networks
 - PERT Analysis
- Resource Management
- Risk Management
- Cost Management
- Analysis of a sample Project
- Hands-on Application on Microsoft Project Software
- European Union Projects
- Organization and procedures of EU Projects
- EU Project life cycle
- European Union Projects' Actors
 - Project Partners and Responsibilities
 - Project Coordinators and Responsibilities
 - Project Managers and Responsibilities

2

MICROSOFT TECHNOLOGIES VS 2005 AND TEAM FOUNDATION SERVER

📅 Date : 9 February 2005
📍 Place : Ankara Hilton Oteli Çankaya Salonu
👤 Presenter :

Context:

- SQL Server 2005 and .NET Integration
- Visual Studio 2005:
Team Work in Software Development

Offered Seminars & Conferences

1

3D GAME-LIKE LEARNING ENVIRONMENTS in EDUCATION

 Organization : BTIE 2004
 Date : 22 May 2004

Context:

- Presentation of Undergraduate Thesis “EFSANE” which is 3D game covering some Physics topics.

Attended Seminars & Conferences

1

ASP.NET

 Date : 28 - 29 February 2004:
 Presenter : M. Nuri ÇANKAYA
Microsoft Academic Associate Consultant

Context:

- .NET Framework
- Database Connections
- ADO.NET
- ASP.NET
- XML Web Services
- Web Controls
- Mobile Applications
- Security
- Web Matrix
- Caching in ASP.NET

2

MICROSOFT CLASS SERVER

 Date : October 2004:
 Presenter : Ozan Gökçen
Microsoft Academic Associate Consultant

 Place : Halıcı Eğitim Merkezi / ODTÜ Teknokent

Context:

- Class Server
- Server and Client Architecture
- LRM Packages
- Active Directory Integration
- Scalability

3

MICROSOFT CLASS SERVER, LEARNING GATEWAY, SHAREPOINT PORTAL and CLASS SERVER 4.0

 Date : 5, 6 April 2005

 Presenter : Mr. Neilus / Microsoft Academic Associate Consultant

 Place : Microsoft Türkiye, İstanbul Şubesi

Context:

- Class Server, Server and Client Architecture
- LRM Packages
- Active Directory Integration
- Scalability
- Learning Gateway
- Share Point Portal
- Class Server 4.0

Language Education, Exams and Skills (English)

1. Language Skills

- Reading : Very Good
- Writing : Very Good
- Speaking : Good

2. Academic Education in Language

-  METU Basic English School
in 1999 - 2000 Academic year (1 year)
-  ENG 101 ENGLISH-READING AND WRITING SKILL DEVELOPMENT I (CB)
during METU Undergraduate Education
-  ENG 102 ENGLISH-READING AND WRITING SKILL DEVELOPMENT II (AA)
during METU Undergraduate Education
-  ENG 211 ENGLISH - READING AND VERBAL COMMUNICATION (AA)
during METU Undergraduate Education

8. REFERENCES

- Nurali ÜNAL**
Deputy General Manager
 Datasel Information Systems Co. -  Ankara / TURKEY
 Phone :+90 (533) 280 86 04
 E-Mail : nuraliu@datasel.com.tr
- Andonis Filippidis**
CEO
 Datasel Information Systems Co. -  Ankara / TURKEY
 Phone :+90 (533) 291 05 22
 E-Mail : a.filippidis@datasel.com.tr
- Levent KOÇ**
Deputy General Manager
 Keydata Bilişim Teknolojileri -  Ankara / TURKEY
 Phone :+90 (536) 075 05 94
- Serkan KAYRANCI**
PPP Health Campuses Program Delivery Manager
 Innova Bilişim -  Ankara / TURKEY
 Phone :+90 (533) 646 39 81
 E-Mail : skayranci@innova.com.tr
- Prof. Dr. M. Yaşar ÖZDEN**
Academician
 Educational Sciences Undergraduate Program
 Eastern Mediterranean University -  Gazi Magusa / KKTC
 Phone :+90 (532) 292 52 01
 E-Mail : myozden@metu.edu.tr, myasar.ozden@bahcesehir.edu.tr
- Dr. Çetin BALANÜYE**
Academician
 Philosophy Department
 Mediterranean University -  Antalya / TURKEY
 He was my director at Halıcı from 2005 to 2007.
 Phone : +90 (533) 456 03 38, +90 (312) 210 00 20
 E-Mail : balanuye@akdeniz.edu.tr, aspeaker@yahoo.com
- Prof.Dr. Kürşat CAĞILTAY**
Academician
 Department of Computer Education and Instructional Technologies
 Middle East Technical University -  Ankara / TURKEY
 Phone : + 90 (312) 210 36 83
 E-Mail : kursat@metu.edu.tr