

# Muhammet TURŞAK

- Extended Curriculum Vitae and Portfolio -

☎ +90 554 200 78 29  
📍 Ankara / TURKEY  
✉ [tursoft@gmail.com](mailto:tursoft@gmail.com)

🏠 [www.tursoft.net](http://www.tursoft.net)  
in [tr.linkedin.com/in/tursoft](https://tr.linkedin.com/in/tursoft)  
🐦 [twitter.com/muhammettursak](https://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 in 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**

since 2000

**15**

years of

**Management  
Experience**

since 2005

**17**

years of

**.NET  
Experience**

since 2003

**20**

years of

**Web Dev.  
Experience**

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



## 4. AWARDS

---

### 🏆 XI. Technology Awards Finalist in Turkey - 2014





📄 Issuer: Tubitak, TTGV, TUSIAD

AviCenna VKBS is selected as finalist in XI. Technology Awards organized by TTGV, TUBITAK, TUSIAD 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*

 <b>Health Informatics</b>  20+ projects 7+ years of exp.	 <b>E-Learning</b>  10+ projects 8+ years of exp.	 <b>ERP &amp; CMS</b>  10+ projects 7+ years of exp.	 <b>E-Commerce</b>  5+ projects 5+ years of exp.
--	--	---	---

### *Major Project Types*

 <b>Software Development Frameworks</b>  5+ projects 10+ years of exp.	 <b>Enterprise Portal Systems</b>  15+ projects 15+ years of exp.	 <b>Backend Services</b>  8+ projects 15+ years of exp.	 <b>Online Video &amp; Conferencing</b>  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. Gambyte Platform (SaaS)
2. Avicenna PDFW Web Framework
3. Fonet Framework
4. Avicenna Product Development Framework
5. Fonet Studio
6. Avicenna Telemedicine Platform (ATTP)
7. Lifewatch Telemetry Monitoring Portal
8. Avicenna ATTP Mobile
9. Avicenna Case-Mix Information System (Vaka Karmaşı 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, auhthentication 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

## AVICENNA ATTP

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

Telemedicine Platform



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

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

Telemedicine Platform



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



FONETFW

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, manageable/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



FONETStudio

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

Major features:

- Fully drag & drop 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 KARMASI 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 TAKİPÇİM (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 Prodüktivite 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

📱 *Labris Teknoloji* 💡 *Online Customer Support System*

It is an online Customer Relations Management system. It's 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

📱 *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

## XMESSENGER

💡 *P2P Multi Channel Instant Messaging Software*



It was developed based on Client-Server architecture. This platform **XMessenger** 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

💡 *P2P Network Based 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

### 3D Educational Game

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

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

## MİLLİYET NEWSPAPER WEBSITE - COMPETITION WEB ROBOT

### Online bot software

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)

### Halıcı Informatics & Software Co.

### E-Learning Content Dev. Editor Tool

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 İŞİĞİNDA 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*

#### KRİPTO

🔑 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+*

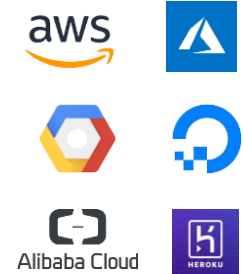
## 6. TECHNICAL SKILLS

### 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

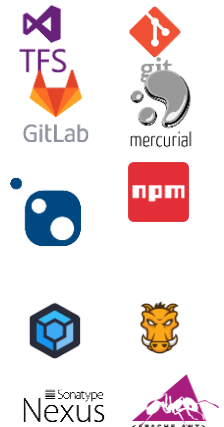
excellent  
excellent  
excellent  
excellent  
excellent



#### ALM Tools

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

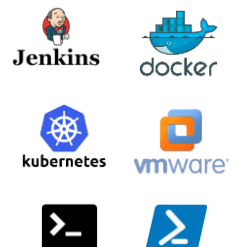
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
excellent  
good  
excellent  
good



#### 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 ARCITECTURE

WCF

excellent



Web Services

excellent

oData

excellent

oAuth

excellent

REST Services & JSON

excellent

GraphQL

beginner

gRPC

beginner



## 🔖 COMPONENTS

Angular Material

excellent

Telerik RAD Components

excellent

Telerik KendoUI

excellent

PrimeNG

good

D3JS

good

Telerik Reporting

excellent

FastReports

excellent

Crystal Reports

excellent

Infragistics

excellent



PRIME NG



## 🔖 DATABASE

Oracle & PL/SQL

excellent

MS-SQL & T-SQL

excellent

MySQL

excellent

PostgreSQL

beginner

MongoDB

beginner

Couchbase

beginner

Redis

beginner

Ms Access

excellent

EntityFramework & LINQ

excellent

ORACLE®



MySQL



## 🔖 GRAPHIC & ANIMATION SOFTWARES

Adobe Photoshop

excellent

MS Blend

excellent

Macromedia Flash

excellent



## 🔖 TESTING

jasmine

beginner

MSTest Framework

good

Microsoft Test Explorer

good

SoapUI

good

Postman

good

Fiddler

good

## 🔖 OS

Windows Servers

excellent

Linux (Ubuntu, CentOS)

good

MacOS

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

#### Grade

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

AA

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](mailto: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](mailto: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](mailto: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](mailto:myozden@metu.edu.tr), [myasar.ozden@bahcesehir.edu.tr](mailto: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](mailto:balanuye@akdeniz.edu.tr), [apeaker@yahoo.com](mailto:apeaker@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](mailto:kursat@metu.edu.tr)