

Curriculum Vitae

Personal information

First name / Surname **Selçuk Cihan**
E-mail selcukcihan@gmail.com
Online profiles [linkedin.com/in/selcukcihan](https://www.linkedin.com/in/selcukcihan), github.com/selcukcihan, www.selcukcihan.com, [stackoverflow](https://stackoverflow.com)
Nationality Turkish
Gender Male

Education

Dates / GPA 01/09/2003 - 01/07/2008 (3.57 / 4)
Title of qualification BS. in Computer Engineering
Research interests Wireless Networks and Computer Vision
Organisation [Boğaziçi University](http://www.bogazici.edu.tr)
Dates / GPA 01/09/2008 - 01/10/2010 (3.80 / 4)
Title of qualification MS. in Computer Engineering
Title of thesis Parallel maximum flow solver for multi-core machines
Organisation [Boğaziçi University](http://www.bogazici.edu.tr)

Desired employment / Occupational field

Software engineer

Work experience

Employer INTERTECH A.Ş., intertech.com.tr
Occupation or position held Senior Software Engineer
Main activities and responsibilities Developing and supporting business process management suite (.Net, MSSQL, Javascript)
Dates 10/2013 --
Employer FİNTEK A.Ş., fintek.com.tr
Occupation or position held Senior Software Engineer
Main activities and responsibilities Developing and supporting core banking application of [Ziraat Bank](http://www.ziraatbank.com.tr) (.Net, Oracle, WPF, WCF)
Dates 06/2011 – 10/2013
Employer AirTies Wireless Networks, airties.com
Occupation or position held Embedded software engineer
Main activities and responsibilities IPTV development in C (teletext, closed captioning, subtitles, rtsp, pvr, transport stream parser)
Dates 09/2009 - 12/2010
Employer CC Yazılım Ltd., www.ccyazilim.com
Occupation or position held Software engineer
Main activities and responsibilities Cross-platform desktop application development in C++ (wxWidgets, SQLite)
Web application development (apache + mysql + django)
Dates 01/2009 - 09/2009

Employer	Teknobil Mühendislik, www.teknobil.com
Occupation or position held	Embedded software engineer
Main activities and responsibilities	Desktop application development in Python. Embedded development on CAN Bus, Renesas DSP
Dates	01/2008 - 11/2008

Personal skills and competences

Programming languages	C, C++, C#, Java, Perl, Python, Javascript
Databases	MySQL, SQLite, MS SQL, Oracle
Other stuff	Boost, STL, Django, libcurl, openssl, Unity (DI container), Ninject, angularjs, bootstrap, jquery, busybox, git, svn, cvs, gcc, gdb, tfs, iis, ffmpeg, OpenGL

Selected Work

Workflow engine	Designed and developed (C#) a workflow engine, workflow designer and administration tools. 100K instances flow daily through the engine which is a .Net application with Oracle 10G used for persistence services. Workflow engine is designed to have constructor injection (dependency injection pattern) using Unity.
Ziraat Bank Operation Center	Took part in developing (C#) Operation Center application of Ziraat Bank.
Online backup	Designed and implemented a cross-platform desktop client and corresponding server. Client is implemented in C++ utilizing wxWidgets GUI toolkit. Client database is SQLite. Server is implemented in Java (J2SE). An application level protocol is implemented for client-server communication, secured via SSL (openssl). Stored files are kept encrypted (AES).
Online backup web portal	Designed (visual design excluded) and implemented a web portal for serving online backup users. Users can download / browse backed up files through the portal. MySQL, apache web server and django framework are utilized.
Business Process Management Suite	Developed and maintained (C#, MSSQL) a workflow engine, workflow designer and administration tools. The engine is hosted on IIS 7, with MSSQL as the databse. Serves more than 10K instances per day on production.
DenizBank Workforce Management System	Designed and developed workforce management system for DenizBank operation center, using Microsoft's Solver Foundation.
IPTV	<ul style="list-style-type: none"> – Teletext (level 1, 1.5, 2.5, 3.5) implementation – Subtitles (DVB, MicroDVD, SRT, SAMI) implementation – Personal Video Recorder implementation – Transport Stream parser implementation
Mobile 3D talking head	Ported Xface talking head library to mobile platform (J2ME). Uses OpenGL ES.
Instant messaging system	Designed and implemented an application layer protocol together with the instant messaging application. Implemented in c++. Uses wxWidgets and Berkeley sockets.