Hüseyin Kozan

Computer Engineer and Hardware Technician

Vocational Experiences

Haz. 2015 -- ... **Consultant**, *Video Analitik* ☒ .
- ○ Video Analyse Software
  - Consultancy and development about PHP, Laravel, October CMS, MySQL, HTML, Javascript and web technologies. Consultancy about Linux Operating System and data flow architectural design.

Haz. 2014 -- ... **Software Engineer**, *AntSis Electronics* ☒ .
- ○ Internet of Things (IoT)
  - Development of IoT management software using the technologies like NodeJS, PHP, HTML, Javascript, and MQTT.
- ○ Geographic Information System(GIS)
  - Development of a GIS using PostGIS, GeoServer, OpenLayers, JQuery, and CodeIgniter/PostgreSQL.

Jun. 2014 -- ... **Software Engineer**, *Infron Ltd.* ☒ .
- ○ microCOR Lab SDK
  - Design and development of the Lab Software Development Kit (SDK). Development of the MATLAB mex module to acquire data.
- ○ microCOR Ekg Software
  - Hospital automation integration using DICOM protocol and DCMTK toolkit.
  - Porting from Qt4 to Qt5 and development.
  - Development of the user interface to work on Android and other mobile platforms.
- ○ Documentation System
  - Configuration and adaptation of Alfresco, Libreoffice, Redmine, and GitLab tools for the ISO 13485 standardization.

Jun. 2013 -- Jun. 2014 **Software Engineer**, *CTech A.S* ☒ .
- ○ Modeo, 3G Video Streaming Device
  - Server control GUI with Qt/C++ ☒
  - Embedded control GUI with Qt/C++.
  - Control protocol design and implementation with Google Protocol Buffer.
  - Video streaming web system with CodeIgniter/MySQL.
  - Maintenance of existing IPhone codes.
  - Jenkins CI integration with Bash scripts.
- ○ Modeo Encoder, Video Encoder Device
  - Control GUI with Qt/C++.
- ○ Military Modem
  - SNMP agent design and implementation using Agent++ ☒
  - SNMP Manager design and implementation using Qt/C++, Snmp++ and QtPropertyBrowser.
- ○ Deep Package Inspection
  - Reporting interface with CodeIgniter/RRDTool.

Kirsehir -- Turkey

☎ *+90 (536) 339 4791* • ✉ *posta@huseyinkozan.com.tr*

🌐 *huseyinkozan.com.tr/en* • 🔗 *huseyinkozan* • 🐦 *huseyinkozan*

 huseyinkozan

Dec. 2010 -- **Software Engineer**, *Infron Ltd.* ☑ .
Jun. 2013 ○ microCOR Ekg Device User Interface ☑
- User interface with Qt/C++.
- Patient database with SQLite.
- Hawrdware control with private binary protocol.
- Firmware check and update.
- Windows installer with NSIS. Mac OS X installer with Bundle system. Pardus install package with Pisi packaging system.
○ microCOR Ekg Device Android Application
- Fork of desktop application for Android.
- Gathering data with libusb using Android Native.
○ Infron Web Site ☑
- Wordpress installation and configuration.
- Child theme for Wordpress.
- An extension to check update for microCOR Ekg Device User Interface.
○ ISO 13485 Quality System
- Alfresco installation and configuration for quality system.
- Automation scripts for manufacturing.
○ Health Device
- JSON based private protocol development.
- Android REST service which using this protocol.
- Surface mount circuit board soldering.

Jul. -- Aug. **Software Engineer**, *SanLab* ☑ .
2012 ○ Forklift Simulator
- libmodbus C wrapper to use with MODBUS supported control modules.

Feb. -- Nov. **Military Software Officer**, *Turkish Armed Forces.*
2010 ○ School Portal
- Development and maintenance of school portal which was written with PHP/MySQL.
- Redesign and implement MySQL database.

Jan. 2009 -- **Software Engineer**, *Infron Ltd.* ☑ .
Oct. 2009 ○ microCOR Ekg Device User Interface ☑
- User interface with Qt/C++.

Kirsehir -- Turkey

📱 *+90 (536) 339 4791* • ✉ *posta@huseyinkozan.com.tr*
🌐 *huseyinkozan.com.tr/en* • 💼 *huseyinkozan* • 🐦 *huseyinkozan*
☺ *huseyinkozan*

2/4

Project Based Experiences

2012 **RFID Reader SDK**, *RFtek Ltd* ☑ .
- o Development of RFID Reader SDK using Qt.
- o .NET wrapper using Active Qt.

2008 **Devren Control Panel**, *Devren Ltd.* ☑ .
- o Management interface with PHP.

2008 **The Play Barn** ☑ .
- o A kindergarten web site which have control panel with CodeIgniter/MySQL. (Replaced)

Open Source Contributions

2014 **Qt**.
- o Finite State Machine
  - Qt-Simple-State ☑ : A simple state machine.
- o Suleyman Demirel University Qt Presentation ☑
  - QML presentation application ☑

2013 **Qt**.
- o Animated Layouts
  - QAnimatedGridLayout ☑ : A grid layout that can zoom into an item with animation.
  - QAnimatedMainWindowLayout ☑ : A main window layout that can change layout placement ratios with animation.
  - Fixed Ratio Layout ☑ : improve a squared layout to obey Golden Ratio ☑ .
- o Qt Creator Feature
  - A contribution to Qt Creator 2.7.0 that you can close opened files with middle click. ☑

2012 **PhoneGap**.
- o An extension to PhoneGap which provide Bluetooth support on Android environment: phonegap-bluetooth ☑

2012 **Pisi Linux (Pardus)**.
- o Pisi Linux (formerly Pardus) packaging tool PiSiDo ☑
- o Packing of: ☑
  - PiSiDo, Heimdall, libmodbus, ScanGearMP, Kotaci, Easycap, MP, Sysprof

2008 **Gentoo**.
- o Install, usage and optimization experiences.

Others.
- o QtCreator project files ☑ for OpenGL Super Bible book examples.
- o BrightTray ☑ : Brightness tool for Linux which runs at system tray.
- o A dictionary application with WinAPI.
- o Testrix ☑ : A Tetris clone with OpenGL.
- o Avagadro translation. ☑

Interns

2009	**Infron Ltd.**	*Development of microCOR Ekg Device User Interface*
2008	**THY**	*Computer hardware intern*
2003	**TOFAS**	*Computer hardware intern*
2003	**Koc Sistem**	*Computer hardware intern*

School Projects

2009	**Medaq : Digital Signal Acquisition GUI with Qt/C++.**	*Final Project* ☑
2009	**Sine recognition with Matlab.**	*Artificial Neural Network* ☑
2009	**Hodgkin and Huxley Model GUI with Matlab** ☑	

2009	**String search analysis with dynamic programming**	*Algorithm Analysis* ⌗
2009	**Recursive mutiplication of big integers**	*Algorithm Analysis*
2008	**A rental web site with PHP/MS-SQL**	*Web Programming*
2008	**A RISC CPU design**	*Computer Architecture*
2007	**Dynamic sized array**	*Programming Languages* ⌗

Educations

2004--2009	**Computer Engineering**	*2,8/4, Istanbul University* ⌗
2001--2003	**Computer Hardware**	*3,4/4, Uludağ Üniversitesi* ⌗
1996--2000	**Science**	*3.5/5, Serik Anatolian High School* ⌗

Languages

Turkish	**Native**	
English	**Intermediate**	*High School and University*

Certifications / Trainings

2015 **Applied Entrepreneurship Certificate**, Gebze Chamber of Commerce.
KOSGEB Applied Entrepreneurship Training.

2002 **Windows 2000 MCSE**, MBA Bursa.
Microsoft Certified System Engineer (MCSE) training for Windows 2000 Server Family.

2002 **Windows 2000 MCP**, MBA Bursa.
Microsoft Certified Professional (MCP) certificate for Windows 2000 Server Family.

Technical Skills

Programming Languages	C/C++, PHP, Javascript, Bash, NSIS Script, HTML, QML, Java
Frameworks	Qt, Qwt, MATLAB Mex, Node.js/io.js, CodeIgniter, Laravel, October CMS, JQuery, Open-Layers, GeoServer
Development Tools	QtCreator, Atom, Netbeans, Notepad++, Inkscape, QMake, Autotools, GCC, MinGW, Eclipse, Dia, Umbrello, Libreoffice, Visual Studio, MATLAB
Network Protocols	TCP/IP, JSON, microCOR Protocol, DICOM, Modeo Protocol, SNMP, Google Protocol Buffer, XML, MODBUS, RTMP, EPC Gen2
Database Systems	MySQL, PostgreSQL, PostGIS, SQLite, MongoDB, RRDTool, MS-SQL
Versioning	git, Bazaar, SVN, Alfresco
Operating Systems	Linux (Ubuntu, Gentoo, Pisi, Embedded, Android), Windows (98, ME, NT4, XP, Vista, 7, 8, 10, 2000 Server), Mac (OS X)

Personal Informations

Born at 1982. Married and have two children. Got A2 and E driver licenses. Non-smoker. Finished military duty.

Kirsehir -- Turkey

📱 *+90 (536) 339 4791* • ✉ *posta@huseyinkozan.com.tr*
🌐 *huseyinkozan.com.tr/en* • in *huseyinkozan* • 🐦 *huseyinkozan*
○ *huseyinkozan*

4/4