Hamza Rasaee

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QUALIFICATIONS SUMMARY

- Electrical Engineer Team Leader with over 10 years of experience.
- Hardware. Electro-Mechanical system design and deployment from hand-drawn sketches to proof of concept, prototyping and mass production set up.
- Software. Java, C++, CSharp and JavaScript. Databases, HW Drivers and Mining.
- Leading teams of SW and HW engineers. Liaison between SW-HW teams and BOD
- Primarily self-taught beyond BSc. Hands-on, A to Z engineer with the ability to take a word problem and submit a physical solution in measurement and control systems.

ACADEMIC EXPERIENCE

Course Project Leader

Babol Noshirvani University of Technology, Iran

- Formula parser: Machines and Languages Theory course project. Used CSharp to parse, process and plot informtaion
- Mapping in computer architecture: Simulation of Associative, Direct and Set-Associative Mapping, selecting the type of mapping and input data, and calculating the hit ratio in the software
- Driving a Stepper Motor directly via computer keyboard without a controller board: Interface Circuit Design course project. Used CSharp to determine speed and degree of rotation. Used the Parallel Port to drive the motor

EDUCATION

Babol Noshirvani University of Technology *Bachelor of Science in Computer Engineering*

PROFESSIONAL EXPERIENCE

Chief Engineer

Center for Applied Control Systems, Iran

- Daggard (Car Locator)
 - Design and implementation of electronic board
 - Pull the positoin data from cellular and GPS modules
 - Secure communication between proprietary Android application using ATMEGA8 micro-controller and Sim808
 - Android based application to interact phone with the device
 - Pull the map either from Google Maps or a locally stored vector map
- All-in-one Point of Sale System
 - Turn-key POS system. Dedicated in-house HW/SW design to protect against hacking and avoiding licensing fees. System Boots in 4 seconds.
 - Developed a software using Keil into designed and manufactured board using ARM (LPC1788) micro-controller
 - 7-inch multi-touch TFT LCD (Hardware V1)
 - 10-inch multi-touch TFT LCD (Hardware V2)
 - SD card using Native mode
 - Keyboard, mouse, printer, and scanner using USB and RS232 all driven via proprietary system software

Mazandaran, Iran 2009 - 2011

> 2014 - Present AppConSys.com

2009 - 2011 en.nit.ac.ir

Electronic Systems Consultant

Health Production Process Network, Iran

- Industrial Automation System
 - Designed and implementation of hardware including Raspberry Pi 3 with Linux OS programmed in Java using Eclipse
 - Remotely control the industrial automation system by developed Android and IOS application
 - Web page using PHP to send/receive data and MySQL to save data and make reports
 - Plot statistical quality tools (SQT) on a remote screen (smart phone, tablet, etc.)
 - Different types of reports using SQLite in Android

Engineering Contracts

Numerous Contract Projects, Iran

- Industrial Incubator System Controller
 - Send command to up to 10 relay-boards using LPC1768 to control two heaters, light, fans, spray, pump, and DC motor
 - Read data and time from DS1307RTC (Real Time Clock)
 - Physical interaction layer using RS485 and Modbus protocol
 - Android application developed in Android Studio to interact with the controller by Bluetooth
- Universal Hardness Tester
 - Measure the hardness of metal using different testing methods of Vickers, Rockwell, Rockwell Superficial, and Brinell
 - Metal hardness calculation using video stream processing
 - 24-bit analog to digital converter HI7191
 - Read digital data from HI7191 using SPE protocol
 - Send/Receive data to/from computer using UART protocol
 - Calculate analoge data from LVDT using AD598 as Sigma-Delta LVDT signal conditioner
 - Record video from the camera using a windows based software developed using EMGU Library in CSharp

Electronic and software Engineer

Koopa Pajoohesh Co, Iran

- Micro Vickers Hardness Tester
 - HI7191 analog to digital convert using SPI
 - Micro-step to srive stepper motors
 - Microsoft visual studio (CSharp) windows based control software
 - Draw specific shapes to calculate the harness of a metal by measuring the area of shapes
 - Analysis, presentation and archiving of results

IT Manager

Tajhizat Madares, Iran

- Inventory
 - Database designed using MS Access
 - Forms created using VB to interact with operator
 - Statistical analysis of variety of reports

SKILLS

Programming: C, C++, CSharp, Java WEB: HTML, PHP, ASP, JavaScript Database: MySQL, SQLite, Access Micro-controller: AVR, ARM IDE: Eclipse, Android Studio, MS Visual Studio, Matlab DreamWeaver, MS Visual Studio (CSharp), REACT SQLite Browser, phpMyAdmin, MS Access Keil, AtemlStudio, CodeVision

LANGUAGES

Shaab-co.com

2008 - Present

koopaco.com

2009 - 2010

2008 - 2009 tm-iran.com