

Seyed Jalal Hosseini

PERSONAL DATA

PLACE AND DATE OF BIRTH: Tehran, Iran | 1st March 1987
ADDRESS: Via D'Azeglio 23, 40123, Bologna, Italy
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GITHUB: [artronics](#)

EDUCATION

MARCH 2016 | **M.Sc in TELECOMMUNICATION ENGINEERING, University of Bologna, Bologna**
Thesis: "Software-Defined Wireless Sensor Networks"
Advisor: Prof. Chiara BURRATI | GPA: 100/110

FALL 2010 | **B.Sc in TELECOMMUNICATION AND ELECTRONICS ENGINEERING, University of Zanjan, Zanjan**
Thesis: "Controlling Robotic Arm with Human's arm motion"

WORK EXPERIENCE

2012 | Technical Consultant at SHAHID RAJAEI PORT COMPLEX
2011 | *Technical Consultant Engineer in Telecommunication and Electronic Equipment Office*

- Consulting on supplying equipments and spare parts
- Equipment maintenance, consultant and inspector

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TECHNICAL SKILLS

Programming Languages: JAVA, C++, C, C#, Assembly (ARM), PHP, Javascript, HTML, CSS

- **Full-Stack Developer** with high expertise in backend technologies
- Complete knowledge of **Object Oriented Programming** and **Design Patterns**
- Understanding of **Unit Testing**, **Source Control** and **Documentation**
- Familiar with **Relational Database**, **MySQL**, **SQL Server** and **ORM** frameworks

Operating Systems: Windows, Mac OSx, Linux, Embedded OS and RTOS: μ C/OS, freeRTOS

- Skilled in Linux Command Line and Bash scripting
- Virtualization: **Vagrant**, **VMWare**, **qemu**
- Source Control Management: **git**
- Server Administration: **apache**, **nginx**, **mysql**

- Understanding of **signals**, **filesystems**, and **system calls**

| | |
|---------------------|---|
| Embedded Systems: | <p>ARM, AVR, PIC, Single Board Computers</p> <ul style="list-style-type: none"> • 8-bit Microcontroller AVR megaAVR and XMEGA, PIC PIC12 and PIC16 • 32-bit Microcontroller ARM ARMv6-M, ARMv7-M, skilled in Assembly language • Software solution based on Linux Distribution on SBCs, experience in raspberry pi, Beagle Bone, mini2440 |
| Simulation and CAD: | <p>Altium Designer, Proteus, Vivado, OrCAD, Modelsim, VHDL</p> <ul style="list-style-type: none"> • End-to-end Embedded Systems design from PCB to Test and Verification • Skilled in Multilayer PCB design using Altium Designer • Advance Microcontroller simulation with Proteus • Familiar with FPGA design process: VHDL, Vivado, Xilinx Spartan-6 |

PROJECTS

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|--------------|---|
| Title | Software-Defined Wireless Sensor Networking (SDWSN) |
| Description | This project brings Software-Defined Networking (SDN) concepts in to Wireless Sensor Networks (WSNs) . A Client-Server model connects each separated WSN to a centralized Centralized Controller located in Server. The Client-Server communication happens via REST APIs . A Single Page Application (SPA) written in javascript (Angularjs) is in charge of monitoring the whole network. |
| Significance | <ul style="list-style-type: none"> • Highly modular and loosely coupled design. • Clean and robust code; more than 200 unit tests with code coverage up to 80 percent |
| Title | KAIVAN:Equipment Maintenance Software |
| Description | KAIVAN is a small and easy to use Computerized Maintenance Management System (CMMS) written with Excel and VBA . I developed this software for <i>Fidar Saze Co</i> and it is still in use at <i>Asaluyeh</i> in Oil Platforms. |
| Significance | <ul style="list-style-type: none"> • Easy to use with familiar Excel environment <p>A comprehensive GUI written in VBA</p> |
| Title | Robotic Arm Motion Controll with Human Arm |
| Description | A Servo robotic arm which is controlled by special developed sensor attached to human arm. The embedded system utilizes an ARM Cortex-M3 board running uC/OS-II an sophisticated control algorithms. |
| Significance | <ul style="list-style-type: none"> • Real-Time task scheduler with uC/OS |

LANGUAGES

FARSI (PERSIAN): Native
 ENGLISH: Fluent, | IELTS (2012) Overall:6

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming
 Music, Travelling