

## Mostafa Rokooie

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### CONTACT INFORMATION

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### PERSONAL INFORMATION

Date of birth: February 12, 1988  
Marital status: Married

Gender: Male  
Citizen of: Iran

### TECHNICAL SKILLS

- Fluent coder in C, C++, Python and JavaScript
- Fairly experienced in C#, ASP.net, Java, JSP, GWT and PHP
- Was teacher of Pascal, Delphi and C++
- Know how to write UNIX shell scripts, GNU makefiles, HTML and CSS
- Done team-based projects with Mercurial, Git and SVN
- Experienced in web-frameworks Django and Flask.
- Experienced in client-side coding, Object Oriented programming with JavaScript, JSClass, JQuery
- Experienced in Google API, specially Google Map API.
- Experienced in SQL querying, MySQL, PostgreSQL and MongoDB
- Experienced in some distributed file systems like MooseFS and Gluster FS.
- Experienced in Kivy (Python GUI provider)
- Familiar with Agile, Scrum and RUP and prepared SRS, SDD, SQAP and UML diagrams
- Worked with Redmine and Jira (also GreenHopper and Fisheye)
- Good knowledge about TCP/IP and SS7 protocol stacks
- Implemented and worked with HTTP, POP, IMAP and SMTP
- Setup and configured Apache, Postfix, Dovecot and Cyrus
- Wrote drivers for devices like GPS, GSM, SmartCard readers and Barcode scanners
- Coded, cross-compiled and ran Linux on AVR, PIC and ARM
- Know how to make documents with  $\text{\LaTeX}$
- Experienced in using Vi, Eclipse, PyCharm and MS Visual Studio
- Worked with MATLAB, Simulink, Altium Designer (Protel) and LabVIEW
- Installed, used and sometimes modified Linux, FreeBSD and Microsoft Windows

### WORK EXPERIENCE

**Ehya Darman Pishrafteh**, Tehran, Iran  
*Senior Developer*

**August 2013 to date**

Ventilator HMI , *Only designer and developer of system*

- Designed and developed whole HMI software in Python.
- Ventilator HMI software is a rich graphical user interface supporting multi-touch screen.
- Coded in Python and C++, Used Kivy as GUI provider, MySQL as local database and SerialPort for backend communication.
- Created many customized widgets suitable for the device.

**Bayan Leading Group**, Tehran, Iran  
*Senior Developer*

**April 2011 to August 2013**

Email solution - [hod.ir](http://hod.ir), *Head of back-end team and JavaScript team*

- Designed and developed Hod's web interface. Implemented a JavaScript framework, allowed us to build rich one-page web applications.

- Researched about and used fault-tolerant distributed file-systems. I setup and got professional in MooseFS and GlusterFS.
- Coded in C++, Python and JavaScript, Used Flask, MongoDB, JSClass and etc in a team of 7 developers.

Bayan Programming Contest platform - [contest.bayan.ir](http://contest.bayan.ir), *Head of team*

- Implemented contest panel and management website. A one-page web that allows participants to read and solve problems, see the ranking and etc.
- The functionality of website is completely close to the Google CodeJam.
- Coded in Python and JavaScript, Used Django and PostgreSQL in a team of 4 developers.

Central website of Bayan services - [bayan.ir](http://bayan.ir), *Senior Developer*

- Re-implemented single-signon back-end and front-end website. Re-implementation increased user access capacity and made the code more extensible.
- Coded in Python and JavaScript, Used Flask and MongoDB in a team of 3 developers.

**Karizan Telecomm**, Tehran, Iran  
*Senior Developer and Project Manager*

**August 2007 to April 2011**

Linux-based control boards - Used to control microwave radios in telecommunication stations, *Head of software development*

- Enable alarm collection and remote control for the main device via SNMP protocol.
- Installed a custom version of Linux on an ARM9-based hardware.
- Using routing and bridging algorithms to make boards network enabled in a complex network with weak connections in some parts of it.
- Coded in C, C++ and Shell scripts, Used OpenSNMP, OSPF and STP in a team of 3 people.
- Modified Linux kernel to change USB bus driver decisions.

SMSC Test Module - GSM Network simulator, *Head of team*

- Real time simulation of GSM network nodes like MSC, VLR, HLR and MS.
- Apply load tests to SMSC servers with different algorithms.
- Implemented a part of MAP protocol on TCAP in SS7 protocol stack.
- Coded in C and C++, Used ASN1, POSIX threads and etc in a team of 2 people.

Other projects - Implementation in various fields

- Content conversion manager for WAP network gateway
- Network Monitoring System for Karizan Telemetry devices.
- Software of a watching hardware
- An accurate astronomical clock library for microcontroller usage
- Coded in C, C++ and C#, Used MSSQL, GSM module, HTTP protocol and MS Windows APIs and most of projects done in teams.

**Azm Electronics**, Tehran, Iran  
*Software Developer*

**August 2006 to August 2007**

BID - Company's after-sale services manager

- Implemented a software to issue an smart card for each customers. This software will enable tracking done services and installed parts on the cars for the company.
- Used technologies: C# and Java, MSSQL, MyFair contact less cards, Barcode reader

EDUCATION	<p><b>Iran University of Science and Technology</b>, Tehran, Iran 10 credits to B.Sc., Computer Engineering - Software specialization</p> <p><b>Allame Helli High school</b>, Tehran, Iran High school Diploma <i>National Organization for Development of Exceptional Talents</i></p>
INTERESTS AND ACHIEVEMENTS	<p><b>Robocup</b>, For about 4 years, I was member of high school and university teams in Robocup worldcup.</p> <ul style="list-style-type: none"> <li>• 2D Soccer Simulation, Worldcup, Placed 3rd with team Mersad, Lisbon 2004</li> <li>• Soccer Coach Simulation, Worldcup, Placed 3rd with team Caspian, Bremen 2006</li> </ul> <p><b>ACM ICPC</b>, I had participated in ACM-ICPC regional contest 4 times (2007 - 2010) as a member of IUST team.</p> <ul style="list-style-type: none"> <li>• Runner up in ACM-ICPC World final, 2009</li> <li>• ACM-ICPC Regional Contest - Sharif University of Technology, Placed 4th, two times, 2009 and 2010</li> </ul> <p><b>Bayan Programming Contest</b>, Organization committee Bayan Programming Contest is an ACM-ICPC like programming contest, it's also close to Google CodeJam style. <a href="http://contest.bayan.ir">contest.bayan.ir</a> - <a href="http://en.bayancontest.ir">en.bayancontest.ir</a></p> <ul style="list-style-type: none"> <li>• Head of committee, 2012/13 International Contest, In cooperation with CodeForces.com</li> <li>• Member of committee, 2011 Contest</li> </ul> <p><b>IranOpen Robocup Competitions</b>, Technical committee IranOpen is an official open competitions of Robocup International Federation.</p> <ul style="list-style-type: none"> <li>• Member of technical committee, Soccer Simulation league, Four times in 2006, 2007, 2008 and 2011.</li> </ul> <p><b>Love Arts and interested in traveling</b> I'm not talented in being an artist but really love listening to Music, watching Theater and watching Movies. I also travelled to many destinations in Asia and Europe.</p>
TEACHING EXPERIENCE	<p><b>Iran University of Science and Technology</b>, Tehran, Iran      <b>Autumn 2009/10</b> <i>Data structures and Algorithm design</i>, Teacher Assistant of Dr. Naderi</p> <ul style="list-style-type: none"> <li>• Done 2-hour per week lectures about details of implementation of taught algorithms and data structures in Java.</li> <li>• Was responsible for design exercises and problems for students.</li> <li>• Each lecture session was held with participation of about 50 students.</li> </ul> <p><b>Allame Helli Middle school</b>, Tehran, Iran      <b>2005 - 2010</b> <i>Computer Programming</i>, Teacher</p> <ul style="list-style-type: none"> <li>• Member of school's Computer group and responsible for everything about classes and students' scores.</li> <li>• Taught how to start programming computers with Pascal and basic algorithms to talented students.</li> </ul>
LANGUAGES	<p>Farsi: Native language English: Fluent; TOEFL iBT: 89 (25, 23, 21, 20)      <b>November 2014</b></p>
REFERENCES	Available upon request