

PROFILE

- A computer software engineer, with more than five years of experience, specialising in Real-Time systems, C++ programming and SCADA (Supervisory Control and Data Acquisition).
- Experienced team leader in dispatching department, in charge of a team of six software developers, in the only company in Iran that develops its own SCADA system.
- Excellent quantitative, analytical and technical skills gained through professional experience combined with academic studies.

PROFESSIONAL EXPERIENCE

2004 -2008

Kerman Tablo Co. (KTC)
Software Development Team Manager-SCADA Expert

Tehran, Iran

- Responsible for development of KTCSCADA modular and multi-thread software. This software is designed to control and monitor industrial processes remotely. KTCSCADA is implemented in C++ the kernel is multi-platform and can be executed on Windows, Solaris and Linux operating systems over i386, SPARC or ARM machines.
- Responsible for two out of nine modules of KTC SCADA software (i.e. DBS and SAP modules).
- Responsible for adding OPC server, ISAGRAF sequencer target and a math parser processor to KTCSCADA.
- Responsible for implementing and updating a multi-purpose, multi-platform library to provide developers with functions such as thread, timer, customised network protocol and Jalali calendar as well as queuing, message handling and logging facilities.
- Designed and implemented a customised network protocol based on UDP, adding reliability and capability to work on two LANs simultaneously.
- Responsible for design and implementation of a routine for software authentication using Blowfish as the encryption algorithm as well as implementation of a key generator interface using MFC.
- Responsible for UNIX administration and scripting. Implementation of a daemon to start SCADA software as well as a few other scripts to run in "cron table".
- Responsible for configuration of Samba as PDC and BDC on Solaris 8. Configuration of PostgreSQL on UNIX machines and performance tuning of the DBMS. Configuration of NTP server and clients for time synchronisation.
- Working on designing and development of embedded systems particularly an RTU (Remote Terminal Unit) software on ARM and Motorola CPUs.
- Responsible for recruitment, training, and supervising a team of SCADA software developers.
- Project manager on a number of system installation projects for the Iranian National Electricity Company; also responsible for testing and commissioning of SCADA systems for 6 power stations.
- Team member in a nation-wide SCADA and telecommunication project for the Iranian Offshore Oil Company.
- In charge of technical and feasibility studies to evaluate clients' requirements, before bidding tenders.
- In charge of training customers' staff, preparing them to work with the installed KTCSCADA systems.

2003 - 2004

Electrical Power Research Centre (MATN)
Software Engineer

Tehran, Iran

- Designed and implemented device drivers and event recording systems to track causes of power fluctuations, contracted by Tavanir (Iran Power Generation, Transmission and distribution Company). Implementation is all in C and database is PostgreSQL using ecpg pre-processor library to link the software to database.
- Conducted weekly training courses for staff on Real-Time Systems and Linux.

2001 - 2003

University of British Columbia
Lab Manager, Industrial Automation Laboratory in Mechanical Engineering Dept.

Vancouver, Canada

- In charge of day to day running and administration of the laboratory.
- Designed and launched the Industrial Automation Lab (IAL) Website for UBC university www.mech.ubc.ca/~ial
- Managed tutorials in Image Processing Lab for graduate students
- Assisted graduate students working in IAL with coding and sample gathering for their thesis

1995 - 1999

Kimiarizan Casting Co.
Shareholder, Managing Partner

Tehran, Iran

- Co-Founded and worked in a start-up company specialising in metal casting and metallurgy. Left the company for further education.

EDUCATION

1999-2002

University of British Columbia, Vancouver, Canada
BSc Computer Science

1991-1995

Sharif University of Technology, Tehran, Iran
B.A.Sc Metallurgical Engineering in Metal Forming

SKILLS

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| <ul style="list-style-type: none"> • Programming Languages
<i>C++, C, Scheme, SQL</i> • Office Tools
<i>Excel, MSword, power point, Latex</i> • Version Control Managers
<i>CVS</i> • Operating Systems
<i>Linux (Debian – Redhat), Solaris 8, Windows XP, Windows 2003 server</i> • Compilers
<i>VCC, GCC, CC</i> • Platforms
<i>I386, sparc, arm, motorola(Men)</i> • Libraries
<i>STL, Dreel, SQLAPI, OPC</i> | <ul style="list-style-type: none"> • Scripting Languages
<i>Bash, VBScript</i> • Designing Tools
<i>Visio, Rational Rose</i> • Daemons and Services
<i>Ssh, rsh, telnet, ntpd, samba, postgresql, X, W32Time, ftpd, tftpd</i> • Databases
<i>PostgreSQL, Access</i> • Editors
<i>VisualStudio, Vim</i> • Others
<i>Multi-thread programming, Network programming, DLL programming</i> • Protocols
<i>TCP, UDP, custom made reliable UDP, IEC870-5-101, IEC870-5-104</i> |
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ADDITIONAL SKILLS AND ACHIEVEMENTS

LANGUAGES

Farsi (Native), English (Fluent) and basic elements of Arabic (Fusha)

ACHIEVEMENTS

- Designed several innovative and exclusive software and protocols for industrial automation.
- Member of Tehran Skiing Team 1993-1995
- Two time Champion of skiing across Iranian universities

* References available upon request.