**Reza Amani**

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objective

Currently seeking a challenging opportunity in different fields and positions of electronics engineering from PCB design to system design and from hardware development to software implementation, that will utilise my extensive skills gathered during 14 years of experience in different levels, including embedded, RF circuits design, analog circuit design, testing and debugging.

Technical skills

* analog, digital and mixed systems
* Microcontroller hardware and software
* signal processing
* Power supplies
* C, C++ and assembly
* Test and debug
* Schematic and PCB
* Visual C#
* EMC and EMI
* Designing, simulating and evaluating RF modules
* Installing industrial equipment such as ultrasonic bath, pumps, valves, motors and sensors
* Fault detection and recovery
* system design
* Training customers and writing manuals
* Ability to translate user needs into technical solutions
* Predict future problems and providing best solutions during design stage
* Proficient in embedded control systems design and familiar with PLC

Soft Skills

**Problem solver:** Actively seeking and resolving technical and operational problems.

**Teamwork:** Extensive experience in team projects at different levels including small team leadership.

**Independent:** Able to work without being supervised; with preference for handle barriers in person.

**Supporter:** Eager to mentor colleagues and help them to debug their works.

**Computer:** Working with basic programs such as Microsoft Project, Word, Excel and PowerPoint.

**Time management:** committed to do the job in time.

**Language skills:** Writing concisely, excellent at reading especially technical texts.

**Documentation:** Excellent at reading and making technical reports, manuals, troubleshooters, etc.

**Hands-on Engineering:** Involving closely and directly in all tasks of projects.

Attributes

* Action-oriented
* Co-operative
* Organised
* Detail-oriented
* Tolerant
* Can-do attitude
* Willing to learn, quick to pick up new skills
* Seeking out new responsibilities regardless of reward

Experience

**Embedded designer, RF designer, Control Project manager** 2005-2014

**Pardazesh Basamad Ltd.**

An agile, small size, high-tech Company performing control and R&D projects

Responsibilities:

* Designing hardware of digital systems; schematic and PCB
* Programming embedded systems with C
* Developing GUI for control applications with visual C#
* Performing some mechanical calculations and interfacing electronic concepts with mechanic requirements
* Negotiate with the costumer, providing solution and choosing platform
* Making technical reports and delivering
* Designing RF modules using MMIC’s
* Interfacing Industrial elements with control system including SSR, speed controller, PT100 sensors, electronic eyes and encoders
* Planning and teaching costumers training courses
* Proof-of-Principle, Form Study and/or functional prototyping

Achievements:

* Suggesting a new communication system in a parking management/guidance system, led to wiring costs being halved
* Introduced a new idea of combining MAC and PHY layers in a frequency-hopping Ad-Hoc radio with a state-of-the-art robust routing algorithm
* Developed a low-cost reliable embedded system to control chemical and pharmaceutical manufacturing systems with complicated processes
* Eye-catching records of budget and delivery time for 4 embedded control and 2 telecommunication projects

**Digital electronics engineer, Driver/Firmware developer** 2002-2005

**Basamad Negar Ltd.**

Developer of laboratory and broadcast products

Responsibilities:

* Digital hardware designer; schematic and PCB
* Developing peripheral drivers for DSP and microcontroller in C and assembly
* Designing and testing analogue interfaces and high precision circuits
* Planning and teaching costumers training courses

Achievements:

* Break the record of 100MS/s sampling rate and 13.5 ENOB with an acquisition board
* Cut the hardware cost of future projects by 80% suggesting and developing a general purpose SDR platform

**Signal processing group member** 2000-2002

**Professor Hesabi organization (NGO)**

A scientific and research NGO

Responsibilities:

* PCB design, montage, primary tests
* Developing DSP drivers with assembly
* System test and evaluating

Achievement:

* Part of team succeed to research and develop a portable battery-powered ANC

Education

**M.Sc. in Digital Electronics Engineering 2000**

**Sharif University of Technology**

Thesis: Debugging method for parallel-processing DSP systems

Implemented in a platform consisting 4 microprocessors

**B.Sc. in Electronics Engineering 1998**

**Sharif University of Technology**

Final project: Implementing a narrowband FSK transceiver

Controlled and being used by a MCS-51 microcontroller

Computer Skills

Altium/DXP/Protel 99SE Microsoft office

Keil uvision Microsoft C#

TI code composer Microsoft VC++

Xilinx ISE Analog Devices simulation programs

Code Vision Team viewer (remote teaching and controlling)

Awards

3 silver medals from physics, mathematics and computer students Olympiads, 1993

2nd place in university scientific competitions among 150 students, 1998

8th place in national electrical/electronic engineering Olympiad, 2000

Outside interests

Chess (international rated player, Fide Rating: 1624) Team sports

Tramping Classical music

Psychology Travelling

Referees

Available on request