**Reza Amani**

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Career objective

Currently seeking a challenging opportunity in different fields and positions of electronics engineering from PCB design to system design, that will utilise my extensive skills gathered during more than 10 years of experience in different levels, including analog circuit design, testing and debugging.

Technical skills

* analog, digital and mixed systems
* Microcontroller hardware and software
* C, C++ and assembly
* Test and debug
* Visual C#
* EMC and EMI
* Designing RF modules by MMIC’s
* Simulating RF blocks by AWR

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.

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

**Time management:** committed to do the job in time with scheduling tasks cleverly, working with higher energy or even over-working.

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

Attributes

* Action-oriented
* Co-operative
* Decisive
* Open-minded
* Organised
* Perfectionist
* Can-do character
* Seeking out new responsibilities regardless of reward

Experience

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

**Pardazesh Basamad Ltd.**

An agile, small size, high-tech Company performing 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 mechanical requirements
* Negotiate with the costumer, providing solution and choosing design platform
* Making technical reports and delivering
* Designing RF modules using MMIC’s
* Simulating RF blocks using AWR
* Professional testing and evaluating radio systems

Achievements:

* Designed and implemented a parking management/guidance system in half price of available systems using WSN, Ad-Hoc and wireless technologies to eliminate wiring costs
* 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
* Proof-of-Principle, Form Study and/or functional prototyping

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 (ranked 601 worldwide)**

Overall GPA: 16.65/20.00

Thesis: Debugging method for parallel-processing DSP systems

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

**Sharif University of Technology (ranked 601 worldwide)**

Overall GPA: 16.16/20.00

Final project: Implementing a narrowband FSK transceiver

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 AWR (RF simulation)

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

Referees

Available on request