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Summary

Electronics engineer with more than 10 years’ experience in a variety of positions and fields, including embedded hardware/software implementation, analog circuit design, test and debug with a great track record of accomplishing projects within limited budget and time.

Electronics engineer with 10+ years’ experience in developer and debugger positions, mainly in the field of software implementation for embedded systems and GUI, ready to plunge into a responsible job with an opportunity for further professional challenges.??? For hit the ground

Seeking a challenging opportunity in electronics engineering that will utilise my extensive skills gathered during 14 years of experience in different levels and roles including embedded hardware/software, analog circuit design, system design, testing and debugging.

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.

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.

Electronics engineer with 10+ years’ experience in different roles throughout the entire product development lifecycle (from concept to production). Aiming to use my proven debagging and designing skills to effectively fill the Hardware Engineer position in your Company.

Electronics engineer with 10+ years’ experience in senior designer and project manager roles. Aiming to use my proven debagging and designing skills to effectively fill the Hardware Engineer position in your Company.

Electronics engineer with 10+ years’ experience in designer and debugger positions, seeking a responsible job with an opportunity for further professional challenges.

Seeking a position that will benefit from my analogue design skills where my 14 years’ experience can improve tour team technically.

Technical skills

* analogue, digital and mixed systems
* Microcontroller hardware and software
* signal processing
* Power supplies
* DC/DC converters and battery management
* C, C++ and assembly
* Test and debug
* Schematic and PCB
* Planning and performing test and evaluation routines
* Visual C#
* OLE database with Visual C++
* EMC and EMI
* Noise source identification
* Shielding and grounding
* PCB layout considerations for reducing interference and noise
* Designing RF modules by MMIC’s
* Simulating RF blocks by AWR
* Designing, simulating and evaluating RF modules
* Industrial systems installation
* Installing industrial equipment such as ultrasonic bath, pumps, valves, motors and sensors
* Fault detection and recovery
* system design
* Deployment of new technical equipment
* Designing and implementing test jigs
* Training customers and writing manuals
* Ability to translate user requirements into technical solutions
* Predict future problems and providing best solutions during design stage
* Proficient in embedded control systems design and familiar with PLC
* Serial and wireless communication standards like RS485, RS232 and ZigBee
* Analogue circuits simulation
* Developing communication protocols

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 with prioritising tasks, working with a fast pace or even over-working.

**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
* Decisive
* Open-minded
* Organised
* Perfectionist
* Detail-oriented
* Tolerant
* Can-do attitude
* Willing to learn, quick to pick up new skills
* Creative
* Calm
* Logical thinker
* Avid traveller
* Seeking out new responsibilities regardless of reward

Experience

**Embedded designer, RF designer, Analogue designer, Project manager** 2005-2015

**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#
* Working with OLE databases with visual C++
* Performing some mechanical calculations and interfacing electronic concepts with mechanical requirements
* Designing and implementing serial protocols for wireless projects
* Choosing and setting up platforms; ARM, PIC and AVR microcontrollers, Piccolo and floating point DSP’s
* Negotiate with the costumer, providing solution and choosing platform
* Making technical reports and delivering
* Designing RF modules using MMIC’s
* Simulating RF blocks using AWR
* Installing industrial equipment such as ultrasonic bath, pumps, valves, motors and sensors
* Interfacing Industrial elements with control system including SSR, speed controller, PT100 sensors, electronic eyes and encoders
* Professional testing and evaluating radio systems
* Planning and teaching costumers training courses
* Proof-of-Principle, Form Study and/or functional prototyping
* Replacing RS-232 and RS-485 communication with ISM-band wireless modules in some old control systems
* Designing, implementing and testing to meet military environment requirements
* Implementing battery management functions in hand-held products
* Working on legacy codes, debugging and improving

Achievements:

* Suggesting a new communication system in a parking management/guidance system, led to wiring costs being halved; using WSN, Ad-Hoc and wireless technologies
* 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 projects
* Developed an automatic system to test digital cards of up to 80 I/O’s
* Proposed and developed an innovative FH wireless link for remote-controlling a UAV, robust against interference, interception and jamming
* Successfully managed to develop a military product following some of “Mil-std-810A” and “Mil-std-810G part two” rules and methods
* Integrated power supplies of a military fighter, re-designed protection modules and halved occupied space
* Built a Hall-effect current sensor with full range of 50A for testing our products in steady-state and evaluating them in transients

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

**Basamad Negar Ltd.**

Developer of laboratory and broadcast products

Responsibilities:

* Digital hardware designing; schematic and PCB
* Developing peripheral drivers for DSP and microcontroller in C and assembly
* Implementing simple GUI’s with visual C++ 6.0
* Designing signal processing algorithms
* Designing and testing analogue interfaces and high precision circuits
* Proof-of-Principle, Form Study and/or functional prototyping
* Planning and teaching costumers training courses

Achievements:

* Break the record of 100MS/s sampling rate and 13.5 ENOB with an acquisition board
* power supply tuning and protection, controlling battery charging process with DSP
* 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 non-governmental organization

Responsibilities:

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

Achievement:

* Part of team succeed to develop a portable battery-powered Active-noise-controller

Education

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

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

Thesis: Debugging method for parallel-processing DSP systems

Implemented in a platform consisting 4 microprocessors

Main courses: EMC, Advanced electronics, Mixed-mode systems

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

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

Final project: Implementing a narrowband FSK transceiver

Controlled and used by a MCS-51 microcontroller

Main courses: Applied electronics, High frequency electronics, Integrated circuits application laboratory

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)

Team viewer (remote teaching and controlling)

Code Vision (AVR microcontrollers programming and debugging)

Keil uvision (ARM microcontrollers programming)

Microsoft Visual C#

Microsoft Visual C++

TI code composer (TI digital-signal-controllers programming and debugging)

Microsoft Visual Studio (.NET 2013)

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 (Fide Rating: 1624, North shore club team member) Team sports

Hiking Classical music

Psychology Travelling

Referees

Available on request

\*Referees available on request