DAVOOD DAEINEJAD

PERSONAL INFORMATION

Address:	Uuit 6, No.14, 4th Bustan St., Tehranpars, TEHRAN, IRAN	**Place & Date of Birth:** Dezful, Iran | Feb, 12, 1984 **Gender :** Male **E-mail :** daeinejad.d@iroadco.com **Phone :** +98 21 770 60885 **Cell :** +98 912 426 5930	

EDUCATION

SADJAD UNIVERSITY OF TECHNOLOGY, MASHHAD, IRAN

M.Sc. Electrical Engineering, October, 2010
Thesis Title: A Video-Rate 0.78fJ/c.s 8-Bits Pipelined ADC Design in 180nm CMOS
Main Seminar Title: Analog to Digital Convertors; Specifications and Architectures
GPA: A/93 Rank: 1st

AZAD UNIVERSITY, DEZFUL BRANCH, IRAN

B.Sc. Electrical Engineering, February, 2006

Thesis Title: An Autonomous Safeguard Robot, based on Self Learning of Area Map
GPA: B/82 Rank: 4th

RESEARCH INTERESTS

Low Voltage and Low Power Circuits and Systems for IoT applications
Mixed Mode Integrated Circuits and Systems
Analog to Digital Converters
Reliable Embedded System Design
R&D and Production Management
Intelligent Transportation Systems (ITS) solution and sub-systems

PUBLICATIONS

Daeinejad, Davood, 2019, A Frequency Compensation Technique for Two Stage OpAmps, First Iranian Microelectronics Conference, Tehran, Iran, [Civilica Link].

TEACHING EXPERIENCE
SADJAD UNIVERSITY OF TECHNOLOGY
- Analog Electronics Laboratory I, II
- Circuit & System Simulation and Analysis
- TA: Analog Electronic Circuits III

HONORS & AWARDS

- *VICE CHAIRMAN*. **ISO-TC204 Technical Committee, Iran Section**, *Aug, 2022-Present*
- ***Founder & Chairman, IRAN Intelligent Transportation System Association (IITSA),*** *Sep, 2020-Present*
- ***Best M.Sc. Student in Electrical Engineering department***, SADJAD University of Technology
- ***Best Student Lecturer in Electrical Engineering department,*** SADJAD University of Technology
- ***Ranked 1st Among All School Students, in the first decade of education (from Elementary to High School),*** DEZFUL, Iran,1990-1999

- *Member of ELECTROCIVIL Team, Robotics Rescue Real League*, (A Qualified Team by **NIST** to Participate in 2005 U.S.Open Robotics Competitions), Azad University, Dezful, 2005-2007
- *Executive Director of 3rd Regional Robotics Competitions*, Azad University of DEZFUL, 2006

ACADEMIC SEMINARS & PROJECTS

Project: A Video-Rate 0.78fJ/c.s 8-Bits Pipelined ADC Design in 180nm CMOS
Project: A Two-Stage Fully Differential Micro-Power Op-Amp Design in 180nm CMOS
Project: A High Speed Two-Stage Single Ended Op-Amp for Pipelined ADCs in 180nm CMOS
Project: A 40uW 1.5ns High Resolution Comparator with Reset/Latch Pin in 180nm CMOS
Project: A 16-bit Carry Skip Full Adder Design in 180nm CMOS
Project: A Bandgap Reference Design in 180nm CMOS
Project: A 1.5b/stage MDAC Design in 180nm CMOS
Seminar: Sub-Threshold Digital Circuits
Seminar: Data Converters, Specifications and Architectures
Seminar: Low Noise Amplifiers, Design Techniques
Seminar: MEMS Technology, Capacitive RF MEMS Shunt Switches
Seminar: Global Navigation Satellite System
Seminar: Switched-Current Filters, Design Techniques
Seminar: Digital Filter Design and Speech Enhancement, Using MATLAB

WEBINARS

- **Standardization of ITS equipment**; Importance, Objectives, Approaches, Layouts, Requirements
- **Fleet Management Systems**; Definition, Objectives, Approaches, Technologies, Applications

INDUSTRY-RELATED PROJECTS

Position in Project	Project Name	Project Detail	Date, Company	Industry Application
Manager, Designer, Embedded Developer	**SDI-2015FA4** 12-CH Synchro to Digital Convertor	*Very High Tech**, Reliable, High Performance, High Precision, 12 Bit Solid State S2D Convertor with Embedded Android Display Device	2015, iRoad Electronics	3 samples have been already sold to Iran Air Force (IRIAF)
Manager, Designer, Embedded Developer	**iTCS** Inductive Vehicle Traffic Count and Classify System	*Very High Tech**, Reliable, Auto Calibration, High Precision Vehicle Speed & Length Measurement Embedded Device	2018, iRoad Electronics	It has been widely used by Iran RMTO in 200+ main roads
Manager, System Designer	**ST-Shine** Time-Attendance Terminal	*High Tech**, Reliable, Low Price Embedded Terminal with: 4.3" Color LCD, Fingerprint, NFC, Wifi, Ethernet, USB, UPS, Remote Firmware Update	2016, Elmosanat	10000+ devices have been already sold to Banks, Organizations & Corporations
Manager, System Designer	**ST-BUS** Bus Validator	*High Tech**, Reliable, IP54 Embedded Terminal with:	2017, Elmosanat	1000+ devices have been already

		Terminal (NFC & AVL)	Isolated RS485, Wifi, GNSSS, GSM, 4.3" Color LCD, USB, NFC, Remote Firmware Update		sold
Manager, Designer, Embedded Developer		*iVT-808WP* Automatic Vehicle Location, Mileage, and eCall Device	*High Tech**, IP67, embedded AVL device with an embedded 2D INS for measuring Distance Traveled without GPS	2019, iRoad Electronics	200+ devices have been already produced.
Manager, System Designer		*ST-Guard* Guard Tour Patrol System	Reliable, IP67 Embedded Low Power RFID-Equipped System	2016, Elmosanat	3000+ devices have been already sold

*Note1: High Tech grade was tested and qualified by Iran Vice-Presidency for Science and Technology.
 Note2: The successful projects which have been completed before 2015, are not mentioned in the table above.

WORKING EXPERIENCE

RASTIN ROAD TECH ELECTRONICS CO., TEHRAN, IRAN
Founder & CEO, Sep 2023-Present
FIELD OF ACTIVITY: AI Based Solutions in the field of ITS; Inductive-Loop Traffic Counting Systems, Fleet Management Systems, eCall Systems, Laser Based Vehicle Speed Measurements Systems.
www.rastinroad.com

IROAD ELECTRONICS CO., TEHRAN, IRAN
Co-Founder & CEO, Aug 2010-Present
FIELD OF ACTIVITY: Intelligent Transportation Systems (ITS); Inductive-Loop Traffic Counting Systems, Automatic Vehicle Location (AVL) and Fleet Management Systems, ANPR & Parking Management Solutions.
www.iroadco.com

ELMOSANAT CO., TEHRAN, IRAN
R&D Manager, Production Manager, Aug 2013-Dec 2016
FIELD OF ACTIVITY: Design and manufacturing of RFID & Biometric Time-Attendance and Access Control Solutions and Systems, Automatic Fare Collection Systems (AFC), Parking Management System & Solutions.

PEC (PREMIER ELECTROMEDICAL CARE) CO., PARDIS TECH PARK (**IRANIAN SILICON VALLEY**), TEHRAN, IRAN
Technical Consultant, Jan 2013-Aug 2013
FIELD OF ACTIVITY: Design and Manufacturing of Electro-Medical Equipment: Anesthesia Machine, Ventilator, Syringe Pump, and Patient Care Monitoring Systems.

TECHNICAL SKILS

ACADEMIC SOFTWARE	MATLAB HSPICE ADS
CIRCUIT & SYSTEM DESIGN	Mixed Analog/Digital Circuit and System Design Measurement Circuit and Techniques Analog to Digital Convertors
EMBEDDED PROCESSING	Prog. Languages : *C/C++ ,Python* MicroControllers*: 32-Bit ARM7, Cortex-M3 Microcontrollers*

	IDE & Compilers: *IAR Embedded Workbench (EWARM)* *Keil uVision, Codevision*
OTHER SOFTWARE	MS-Office (Excel, Word, PowerPoint, Visio, Project, Outlook, Access) Microsoft Team Foundation Server/Explorer (TFS) CATIA, Photoshop, Corel Draw (Familiar) 3D AUTOCAD
OTHER SKILLS	Project Management R&D Management Team Working

MANAGERIAL SKILLS

- Material Resource Planning (MRP)
- Capacity Resource Planning (CRP)
- Performance Measurement of Production Unit Human Resources
- Performance Measurement of R&D Unit Human Resources
- Performance Measurement of Support and Service Unit Human Resources
- Expert in MS Excel and management related formulas
- Management Experience of R&D, Production, QC and Support Units, as well as total company management as CEO.
- Experience of managing more than 15 successful engineering project in the field of design and manufacturing (Modules, Devices, and Solutions).

HOBBIES & INTERESTS
Problem Solving
Playing the Piano
Swimming & Camping
Poetry