

CURRICULUM VITAE

First Name: Gholamreza
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Gholamreza Rouhani

WORK EXPERIENCES

0- IAIO – Iran Aviation Industries Organization. 1989-1994 (Internship)

1- The Government sector. 1994-2014

Manager and Chief designer and Research Assistant & Head of Overall Design Department of Mechanic & Aerospace Engineering in some research and development center (AIO-DIO-MIO).1994-2014

1-1- AIO - Aerospace Industries Organization. 1994-2006

- Senior Expert of 122 mm Mortar, Shahid Dastvare Industry, 1994-1995
- Senior Expert of Research project (H satellite), Research Center of Shahid Bakeri industries group, 1995-1996
- Senior Expert of Aerodynamics, Research Center of Shahid Bakeri industries group, 1996-1997
- Senior Expert of Propulsion, Shahid Sanikhani Industry, Shahid Bakeri industries group, 1997-1998
- Head of Solid Propellant Motor design, Shahid Sanikhani Industry, Shahid Bakeri industries group, 1998-1999
- Head of Structural design, Shahid Sanikhani Industry, Shahid Bakeri industries group, 1999-2000
- Manager of Final Assembly, Shahid Sanikhani Industry, Shahid Bakeri industries group, 2000-2001
- Senior Expert and Manager (Sub cooperation) of projects of Ashoura missile - optimization of Zelzal artillery rockets - Katyusha 122 mm artillery rockets - *Misagh* missile SAM -Two stage ballistic missile - Fateh SSM - JTO - Standard motor - , ... Shahid Sanikhani Industry, Shahid Bakeri industries group, 1994-2000
- Official Representative in Scientific Committees of AIO of Propulsion design, Structure design, Manufacturing, Shahid Sanikhani Industry, Shahid Bakeri industries group
- Senior Expert of Flight Simulation, Research Center of Sanam, cruise systems industries group, 2001-2002
- Manager of Noor project (long-range sea cruise missile), Research Center of Sanam, cruise systems industries group, 2002-2003
- Manager of Department of Aerodynamic and Flight Dynamics, Research Center of Sanam, cruise systems industries group, 2003-2004
- Deputy of System Design Department, Research Center of Sanam, cruise systems industries group, 2004-2005
- Deputy of Design Bureau, Research Center of Sanam, cruise systems industries group, 2005-2006
- Senior Expert and Manager (Sub cooperation) of projects of Noor Missile SSM – Kosar missile SSM- Katyusha long range -Fath 1 – Fath 2 – Nader – Zulfikar – Meshkat cruise missile- Hoot underwater missile - yakhont cruise missile – Tondar missile – Raad missile – Mini Turbofan, ... Research Center of Sanam, cruise systems industries group, 2001-2006
- Official Representative in Scientific Committees of AIO of Aerodynamics design, Flight Dynamics, System Design, Research Center of Sanam, cruise systems industries group
- Director of Research Committee of Aerodynamics design and Flight Dynamics, cruise systems industries group
- Secretary of Research Committee of System Design, cruise systems industries group
- Member of Research Committee of Propulsion Design, cruise systems industries group
- Member of Research Committee of Structure Design, cruise systems industries group
- Research Assistant and Chief Designer (second order) of Aerospace systems in AIO

1-2- DIO - Defense Industries Organization. 2006-2011

- Director of the Department of Mechanical Engineering, Research Center of Sanat, Armament industries group, 2006-2009
- Manager of Projects such as the Lighten of AM 12.7 mm, Modeling of Fajr-27 (Oto Melara 76 mm), Modeling of DPM (Dochka machine gun), Modeling of T9 (MP5 submachine gun), SAAM 12.7 mm (Barrett MA81), Design and installation of Parallel processing system, Design a computer code for Infantry Weapons Conceptual Design, Reverse Engineering of MGL (Multiple Grenade Launcher) 40 mm, Research Center of Sanat, Armament industries group, 2006-2009
- Founder (Establish and Organization) of Weapons Design Bureau, Research Center of Sanat, Armament industries group, 2006-2010
- Founder (Establish and Organization) of Rockets Design Bureau, Research Center of Rocket, Rocket industries group, 2009-2010
- Manager of projects such as Smart Mortar and, and Smart ammunition, Krasnopol guided shells, Research Center of Maham, Ammunition Industries Group, 2010-2011

1-3- MIO - Marine Industries Organization. 2011-2014

- Deputy of Department of weapon systems, Weapons & Electronics Industries Group, 2011-2014
- Project Manager of Project Torpedo Maine, Weapons & Electronics Industries Group, 2011-2014

2-The Private sector. 2000- Continues

2-1- The private sector, Defense. 2000-2015

- Design and build, shoulder-fired anti-armor rocket & documentation (Shahin project)
- Reverse engineering, design and manufacturing & documentation of wings and body of strategic long-range cruise missile (212 project)
- Design and manufacturing of warhead, boosters, Separation of strategic long-range cruise missile (212 project)
- Design and manufacturing of motor, warhead, adapter, warhead trolleys, braking motor and rotation motor the first stage of long-range strategic ballistic missile project (Ghadir 121)
- Design and manufacturing & documentation and simulation of dynamic plastic deformation (EFP weapon)
- Design and manufacturing & documentation of mixer and dryer machines for solid propellant with a capacity of 1 ton
- Reverse engineering and system identification Skylark UAV

- Reverse engineering, design and documentation of a mini turbofan engine Soyuz R95
- Reverse engineering, design and manufacturing of a mini turbojet engine YJ400-WR-401
- Reverse engineering, design and manufacturing of a mini turbojet engine MOTOR- TJ-500
- Reverse engineering, design and manufacturing of a mini turbojet engine Nahl
- Design, manufacturing and documentation of measuring moment of inertia and center of gravity machine for rocket
- Modeling and kinematics analysis of complex of Oto Melara 76 mm
- Modeling and kinematics analysis of assault rifle MP5
- Modeling and kinematics analysis Dochka machine gun DPM
- Reverse engineering, design and manufacturing of grenade launchers MGL 40 mm
- Lighten of Barrett M82A1 semi-automatic Anti material rifle
- Design, manufacturing and construction of a TNT charge line
- Development and manufacturing of shoulder-fired anti-tank rocket N-1
- Design of ammunition, Sensor Fused Weapons SFW
- Development and construction of weapons, shoulder-fired anti-tank rocket N-2

2-2- Activities related to the aviation industry. 2011-2015

- Activities in the conceptual design of aircraft (fixed wing and Rotary wing)
- Feasibility study of establish a producing line in aviation industry (air breathing)
- Feasibility study of establish a MRO center in the CIS (Ex-Soviet made planes)
- Activities and Feasibility study of establish aircraft parts supply chain center
- Feasibility study of establish a PMA center (re-manufacturing some spare parts)

2-3- CEO of MEMA Co (Modern Electro Mechanic Array). 2015- 2018

- Designing and manufacturing a box lock Peugeot 405
- Design and manufacture of motor-vehicle door lock 405 and 206
- Design, manufacture and installation of Surge Tank, Y-Branch, Bypass, Jib Crane, Sluice gate small hydro power plants Masalli Azerbaijan
- Installation Of Main equipment (Turbine, Generator, Governor, ...) small hydro power plants Masalli Azerbaijan

2-4-Now I am (CAD/CAM/CAE) manager at Day Part Co

GENERAL ABILITY

- Management of research & Industrial projects in the field of design, Production, Installation of parts, special machines, equipment and production lines in the field of Mechanical and Aerospace Engineering
- Expert in Product lifecycle management & Product Data management (PLM & PDM)
- Expert in the principles of engineering design (Conceptual design, Reverse engineering, System Engineering)
- Expert in Aerodynamics & Propulsion
- Expert in projectile design, Aerial vehicle, machine design
- Expert in CFD & FEM
- Expert in modeling software's and analyzing solids and fluid flow CATIA, SOLIDWORKS, FLUENT, ANSYS, PowerMill (CAD/CAM/CAE)
- Expert in the programming soft wares such as FORTRAN
- Familiar with Production & Manufacturing processes (Machinery, CNC milling, ...)
- I am also interested in commercial activities (Procurements) in the field of engineering items

EDUCATION DETAILS

B.Sc. 1989-1994 BSc in **Aerospace/Mechanical engineering (Design, Analysis, Manufacturing)** from Malek Ashtar University of Technology, Shahin shahr, Isfahan, Iran.

BSc thesis: A computer code for thermodynamic analysis of fuel combustion with oxygen.

Supervisor: Prof. A.Mostofizadeh

M.Sc. 1996-1999 MSc in **Aerospace/Mechanical engineering (Design, Analysis, Manufacturing)** from Amirkabir University (Tehran Polytechnic), Tehran, Iran.

MSc thesis: Development of a computer code for thin layer Navier- Stokes (TLNS) calculation with real gas effects.

Supervisor: Prof. S.M.H.Karimian

INNOVATIONS

- Design and manufacturing of measurements and data recording of pressure changes within the high pressure explosion tank with SGM method and using active noise cancellation without the need of drilling and explosion risk and graph the curves of pressure end time, 2008.

PUBLICATIONS

Books

- 1) G.R. Rouhani, "Engineering analysis using SimDesigner for CATIA V5", 2009

Articles

- 2) G.R. Rouhani and M.H.Rahimian and S.M.H.Karimian, "TLNS calculation with effects of Real gas" First conference of aerospace industries organization, Tehran, Iran, Sep. 2000.
- 3) G.R. Rouhani and M.Mirzaei, "Accuracy prediction of Engineering Methods in Aerodynamic analysis of non-symmetric flying objects" The second International & the fifth national conference of Iranian Aerospace society, Feb. 2004.

REFERENCES

- Prof. M.H.Rahimian Faculty of Engineering, Department of Mechanical Engineering, University of Tehran, Cell: +98-912-3100391
- Prof. M.Mirzaei Faculty of Aerospace Engineering, K.N.Toosi University of Technology, Cell: +98-912-2073168
- Prof. J.Roshanian Faculty of Aerospace Engineering, K.N.Toosi University of Technology, Cell: +98-912-2073165