

MahRad Sanat Khallag Company (RADCO)
Qazvin Science & Technology Park, Iran
Postal code: 3471991984

Email ; Shaghghi@radcofix.com
Web: www.radcofix.com
Tel.: (+98) 9127808909
(+98)2833697200
Fax: (+98) 2189774830



Ali Shaghghi Moghaddam

Head of the Engineering team MahRad Sanat Khallag Company

- Personal Identification**
- Place and Date of Birth : Takestan, June 1983
Nationality : Iranian
Marital Status : Married
- Education**
- November 2017**
- Holding some seminars about mechanical design, University of Calabria, Italy
- 2006-2010** **Khaje Nasir University of Technology, Tehran, Iran**
- PhD. in Mechanical Engineering
- 2009-2010** **Univesrity of Calabria, Italy**
- Visiting student
- 2004-2006** **Sharif University of Technology, Tehran, Iran**
- Master degree In Mechanical Engineering
- 2000-2004** **Khaje Nasir University of Technology, Tehran,**
- Bachelor degree In Mechanical Engineering
- Jobs**
- 2018-present** **MahRad Sanat Khallag Company (RADCO)**
- Head of the Engineering team
- 2010-2019:** **Iranian Offshore Engineering and construction Company**
- Pipeline engineer
 - Pipeline engineering coordinator
- 2011- 2018** **Azad University of Technology, Takestan branch**
- Assistant Professor, Mechanical Engineering Department, Part time
- 2004-2008:** **Beton Machine company**
- Engineering Designer

Lecturing experience

- Advanced Machine Design
- Advanced Computer Aided Design
- Engineering by Design
- Engineering Mechanics: Statics
- Fracture mechanics ,Fatigue and creep
- Finite element analysis

Selected Codes and standards

- BS7910 Guide to methods for assessing the acceptability of flaws in metallic structures
- API 579 Fitness-For-Service
- DNV-RP-F116 Integrity Management of Submarine Pipeline Systems
- ASME B31G Manual for Determining the Remaining Strength of Corroded Pipelines
- ASME PCC-1 Guidelines for Pressure Boundary Bolted Flange Joint Assembly
- ASME PCC-2 Repair of Pressure Equipment and Piping
- DNVGL-RP-F113 Pipeline subsea repair - Rules and standards
- Mechanical Design Engineering Handbook
- Parker handbooks for packing selection

Pipeline Experiences**Pipeline engineer for the following projects**

- South Pars Gas Field Development (Phase 17& 18)
- South Pars Phases 20& 21 offshore and onshore pipeline project
- South Pars Phase 19 offshore and onshore pipeline project and Condensate Export Terminal (SPM)
- South Pars Phase 14 pipeline project
- South Pars Phase 12 pipeline project
- South Pars Phase 15&16 pipeline project
- South Pars Phase 22&24 pipeline project
- Iran-Oman offshore pipeline project

Pipeline Engineering coordinator

- South Pars Phase 12 engineering coordinator
- South Pars Phase 19 engineering coordinator

Pipeline engineering experience

- Scientific committee of “1st Iranian conference on Asset Integrity Management in Oil&Gas” <http://www.iranaim.com/>
- Good knowledge of key pipeline engineering principles
- Hands-on expertise of FE analysis software
- Experience of interfacing within other disciplines
- Designing and detailing in accordance with relevant Codes, Standards and Design Guides
- Reviewing of design documentation including detailed design reports, construction drawings, data sheets, material take-offs

- Being involved in several leak detection and leak repair projects
 - Frequent site experience for offshore works such as:
 - Free span rectification
 - Pre-lay and post lay survey
 - Pre-commissioning and pigging
 - Pipe laying
 - Goose neck and dogleg spools installation
 - SPM installation
 - ROV and geophysics survey
 - Leak detection
 - Leak repair by installation of smart flange and smart clamps
 - Pipeline Thermal Expansion Analysis
 - Pipelines - On Bottom Stability Analysis
 - Lateral Buckling Analysis
 - Tie in & Expansion Spool Design Report
 - Pipelines Wall Thickness calculation
 - Allowable Span Length and Bottom Roughness Analysis Report
 - Engineering critical assessment and associated fracture and fatigue assessment
 - Expert in MathCAD for detail engineering
- Computer Skills**
- Excellent ability to use Solidworks, to create detailed models, drawings & assemblies
 - Excellent experience in ABAQUS for stress analysis
 - User subroutines in Abaqus
 - Handling AutoCAD; Drafting software
 - Programming in MATLAB and FORTRAN.
 - Extra: Corel Draw, Tecplot, Origin, Latex

Design skills

- Experience with engineering design textbooks and handbooks
- Experience with mechanical engineering design softwares
- Experience with material selection (metals and elastomers)
- Experience with material specification and tests
- Experience with hydraulic machines designs
- Familiar with elastomer materials and corresponding FE analysis

Design Experiences

- Design and fabrication of Smart Flange (National patent)
- Design and fabrication of Smart Hydraulic pipe to pipe connector
- Design and fabrication of Smart clamp (National patent)
- Detail design of Hydraulic Smart Flange
- Conceptual design of several EPRS products
- Design and fabrication of bending plant (National patent)
- Design and fabrication of torsioning plant (National patent)
- Design and fabrication of different models of truck mixers
- Design and fabrication of hydraulic power tiller (National patent)
- Design and fabrication of mini tank (National patent)

Upon request, details of the products will be submitted.

Language skills

- Excellent in English

Special interest

- Conceptual and detail design of innovative products
- Design and fabrication of pipeline repair products (EPRS)
- Finite element analysis
- Failure analysis
- Fatigue and fracture analysis
- Coordinating of engineering team

Personal skills

- Self-motivated
- Creative problem solving
- Good communicator
- Working within time targets
- Ability to cope with challenging problems
- Very enthusiastic to learn more about my career
- Excellent ability to hold technical presentations
- Good ability to coordinate a team

References

Marco Alfano, PhD | Assistant Professor

Department of Mechanical, University of Calabria
P. Bucci, 44C 87036 Rende - Italy
Ph.: +39 0984 494156 // +39 366 5833875
Email: Marco.alfano@gmail.com, Marco.alfano@unical.it

Saied Mohammadnia | Engineering management

Iranian Offshore Eng. & Const. Company
173 Ostad Nejatollahi (Villa) Ave
Postal Code: 15989- 53914, Tehran, Iran
Ph: +98 9121012479
Email: Mohammadnia@ioec.com