

Resume:

Vahraz Nikzad

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Education: MSc. In Mechanical Engineering, Applied Design Branch, Tehran Polytechnic University of Technology (Amirkabir), TEHRAN, IRAN, Total Average: 83.35%

BSc. In Mechanical Engineering, Solid Design Branch, Sharif University of Technology (Aryamehr), TEHRAN, IRAN, Total Average: 79.65%

Thesis: V. Nikzad S., "Dynamic and Control Analysis of a 4WS Vehicle, A Comparison between Control Methods", Supervisor: Dr. Naraghi, Polytechnic University of Technology, 2001, Grade: 97.5%

V. Nikzad S., "Designing of A Dissipative Semi-Active Suspension by A Frictional (Non-Viscous) Method", Supervisor: Dr. Bateni, Dr. Dorali, Sharif University of Technology, 1998, Grade: 100%

Publications: V.Nikzad S., M.Naraghi, "Optimizing Ride and Handling Response of A 4WS Vehicle with Optimal Control", Proceeding of ISME, 2002, pp.349-356

V.Nikzad S., M.Naraghi, "Feedback Optimal Control of A 4WS Vehicle using Model Reference Tracking Strategy", Proceeding of ISME, 2001, pp.477-484

V. Nikzad S., M.Naraghi, "Optimizing Vehicle Response in a Combined Ride and Handling Full Car Model by Optimal Control Strategies", SAE Paper, No. 2001-01-1581

V.Nikzad S., M.Naraghi, "A New Approach to Control A Semi-Active Suspension using Different Optimal Strategies", SAE Paper, No. 2002-01-1582

V.Nikzad S., M.Naraghi, "A Comparison between Zero Steady State Compensators and Optimal Control Regulators in A 4WS Vehicle", SAE 2002 Transactions, Journal of Passenger Cars : Mechanical Systems, No. 2002-01-1591, pp.1852-1859

V.Nikzad S., M.Naraghi, "Model Reference Tracking Control of A 4WS Vehicle using Single and Dual Steering Strategies", SAE 2002 Transactions, Journal of Passenger Cars : Mechanical Systems, No. 2002-01-1590, pp.1841-1851

V.Nikzad S., M.Naraghi, "Time Delay Control of A 4WS Vehicle-A Comparison of Single and Dual Steering Strategies", SAE 2002 Transactions, Journal of Passenger Cars : Mechanical Systems, No. 2002-01-1589, pp.1834-1840

Other Researches:

V. Nikzad S., "An Automatic Control Method for Barges in Load Out and Float Over Procedures", Accepted for Proceeding and Presentation by Wessex Institute of Technology, Ports and Marinas2002

V.Nikzad S., M.Naraghi, "Comparison of Dual and Single Steering Control of A 4WS Vehicle Using A Time Delay Reference Tracker", Accepted for Proceeding and Presentation by IASTED, CA2002, Paper Number: 354-135

V. Nikzad S., M. Naraghi, "Tracking Control of A 4WS Vehicle- A Comparison of Optimal Strategies", Not Condicated for any Conference

V.Nikzad S., M.Naraghi, "Effects of Model Complexity on A 4WS Vehicle using Combined Ride and Handling Full Car Model", Not Condicated for any Conference

V.Nikzad S., "Preferences of Semi-Active LQR suspension in Comparison with Correspond Active System", Not Condicated for any Conference

V.Nikzad S., M.Naraghi, "Using Time Delay Dual Steering Controller in a 4WS Vehicle with A Multi Purpose Transient Optimizing Reference Model", Not Condicated for any Conference

Experiences: 2005-to date Iranian Offshore Engineering and Construction Co. (IOEC)
1st Floor A Wing, Fortune 2000, Bandra Kurla Complex,
Bandra East, Mumbai, India (RSPPM Project Office)
Tel: +91 22 3062 3063 ~ 6, Fax: +91 22 3062 3067

RSPPM Project – Pipeline Section – Located in India, Mumbai, Pipeline Engineer

- Riser Installation Analysis of Rigid Pipelines with Orcaflex under DNV1981
- Preparation of Rigging Arrangement & Spool Piece Length Calculations & Procedure for Rigid Pipelines
- Preparation of 20 sets of Procedures for 2 Riser Installation Vessels and 10 different cases each
- Crossing Rectification, Freespan Correction & Installation Lifting Analysis of Flexible Pipelines with Orcaflex under API RP 17B & DNV TNA 503
- Preparation of Crossing Analysis Report for Flexible Lines
- Preparation and Revising the Loadout Plans for Pipe Supply of Pipelaying Vessel Jascon 5
- Design of Pipeline Pullhead Protector for Laying down over Rollers
- Design of Structural Support under the Diving SAT System for Riser Installation Operation onboard Jascon 5

2001- 2005 (4 years) Iran Marine Industrial Co. (SADRA)
SADRA Building No.3 Shafagh Ave. Pounak
Khavari Blvd. Phase 7 Shahrak Ghods TEHRAN
14669 IRAN

- Qeshm Submarine Water Pipeline Project, as Project Engineer, Engineering Coordinator, Pipeline Engineer
 - Responsible for the whole engineering works, processes & documents of the Qeshm Submarine Water Pipeline EPCI Contract
 - 3 month pipeline engineering course in Pegasus Co. in Malaysia, KL
 - Installation modeling of 9.5km pipeline bottom tow operation with Orcaflex under BS8010, APL 5L & DNV Standards
 - Client representative & supervisor for geophysical survey (bathymetry, side scan sonar and sub bottom profiling) & geotechnical investigation

(grab sampling, drop coring and drilling) of Fugro Middle East Co. aboard the survey vessels for 30 days (2 phases for 2 different routes)

- Reshadat Renovation & Development, Pipeline Tender as Project Engineer
 - Preparation and evaluation of tender documents
 - Preparation of Method Statement
 - Budgetary Price Estimation
 - Pipelaying analysis of pipelines with Orcalay under DNV 2000 (OS-F101)
- Kharg Genaveh Pipelines Remedial Works – Free Span Correction Project as Project Engineer
 - Preparation of Method Statement and Scope of Work
 - Technical Calculation of Free Spans using DNV Standard
- Load Out, Transportation and Installation of South Pars Gas Field Phase 1 SPP1 (7000 ton) & SPQ1 (6000 ton) Topsides Project, as Project Engineer, Ballasting Control Master, Deck Supervisor
 - Communication with Aker Marine Contractors as engineering consultant of the project
 - Organization chart preparation for the operation
 - Responsible for all internal engineering communication of the information
 - Report & procedure preparation for load out operation
- Barge SADRA FLB-124, as Control, Ballasting & Mechanical Engineer
 - Weight & moment of inertia calculation for barge FLB-124
 - Mooring bollard design and analysis with ANSYS software
 - Design and shop engineering of Launch skid beam bearings
- Load Out, Float Over and Launch Automatic Control Software for Barge SADRA FLB-124, as Analyzer, Simulating Programmer & Control Supervisor
 - Initiation, theoretical study & software development of a control & monitoring MATLAB based software to manually, semi automatically & automatically control the load out, float over & launch of platforms and jackets

2000-2001 (one year) Zobkavan Mfg. Co.

No.19 31th St. Alvand St. Argentina Sqr. TEHRAN
IRAN

- Navid Alloy Arc Furnace Upgrade (from Ferro Silis product with 600 mm diameter electrode to Ferro Chrome product with 750 mm diameter electrode), as Site Supervisor
- Eshtehard Ferro Silis Arc Furnace Plant, as Project Engineer & Designer
- Kerman Ferro Chrome Arc Furnace Plant, as Project Engineer, Site Supervisor & Designer
- Vian Silicon Metal Arc Furnace Plan, as Project Engineer & Designer

1999-2000 (one year) Parspeygeer Eng. Co.

No. 3 Serah-e-Seradj Farjam St. TEHRAN IRAN

- Sari Standard Org. 60 ton Universal Test Machine (Tension, Compression, Bending, Buckling), as Engineering Manager
- Zanjan Foulad 20 Ton Steel Tension Machine, Engineering Manager
- Iran Mallible 20 Ton Steel Tension Machine Upgrade (from manual to automatic control & monitoring), Engineering Manager
- Iran Khodro Plastic Tension, Wearing and Compression Test Machines, Engineering Manager
- Saveh University 200 & 20 J Impact Test Machines, Steel Hardness machine and 5 ton Universal Test Machine (Tension, Compression and Bending), Engineering Manager
- Involved in Some various projects related to Mechanical, Chemical and Metallurgical Engineering test machines and tools, design, production procedure and installation of Load Cells (50 kg to 60 ton) and strain gauges (linear and angular)

Skills and Qualifications:

- Pipeline & Pipelaying Engineering Works for Qeshm Project, 3 Month, Pegasus Oil & Gas Sdn Bhd, Kuala Lumpur, Malaysia
- 3 month work in assaluyeh, Iran, in IOEC Site, as pipeline engineer, pipeline installation analysis of 18" & 32" lines of South Pars Phase 1 with Orcaflex including 18" 5km launch, off-bottom tow & Laydown analysis & 32" 500m launch, surface tow, lay down & davit lifting analysis , Pegasus Oil & Gas Sdn Bhd
- Expert to work with Orcaflex & Orcalay Software

- 8 month work in Geoservices detailing below:
 - ✓ South Pars Gas Filed Phase 7, Platform SPD8, Well No. 14, Rig SAGADRILL 2, June 2005, Well Test Engineer
 - ✓ South Pars Gas Filed Phase 7, Platform SPD8, Well No. 1, Rig SAGADRILL 2, May 2005, Well Test Engineer
 - ✓ South Pars Gas Filed Phase 7, Platform SPD8, Well No. 6, Rig SAGADRILL 2, May 2005, Well Test Engineer
 - ✓ South Pars Gas Filed Phase 7, Platform SPD8, Well No. 11, Rig SAGADRILL 2, Apr. 2005, Well Test Engineer
 - ✓ South Pars Gas Filed Phase 7, Platform SPD8, Well No. 02T2, Rig SAGADRILL 2, Apr. 2005, Well Test Engineer
 - ✓ South Pars Gas Filed Phase 5, Platform SPD6, Well No. 10, Rig SAGADRILL 1, Feb. 2005, Well Test Engineer
- 2 weeks course in Tristar Training Center, Dundee, Scotland about Well Test Operation (Course 1)
- 3 days course in ESPDC Training Center, Abudhabi, UAE, about HUET, Sea Survival, H2S & BA
- 10 days HSE courses in Mumbai about HUET, Sea Survival, First Aid & Fire Fighting
- Passed the Moses Software course , 20 Hours, Ultra Marine Co., SADRA Office, Tehran, Iran
- Passed the ANSYS 5.4 course, 20 Hours, Sharif University of Technology, Tehran, Iran
- Passed the ALGOR Course, 20 Hours, Amirkabir University of Technology, Tehran, Iran
- Familiar with Sage Profile, Offpipe, AutoShip 5.1.1, AutoCAD 2000, Mechanical Desktop 5.0, Photoshop 6.0, Internet Explorer 6.0, MS Office XP, Windows XP and Other Relevant Soft ware
- Familiar with Oil and Gas Geology, Soil Mechanics, Geotechnic & Geophysic, Foundation Mechanics & Offshore Structural Analysis