DR. SAID MAZAHERI

PROFESSIONAL STRUCTURAL INTEGRITY & MARITIME SPECIALIST
MIEAUST, CPENG, NER, RPEQ

DETAILS

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INFO

Dr. Sam (Said) Mazaheri has more than 30 years of experience in various industrial sectors and has been involved in various infrastructure projects as a designer, principal expert, supervision and site engineer, project manager, head of department, director of business and international affairs, chief of the board and team leader. He has also played a key role in many structural, civil, port and transportation projects. In addition to his management and engineering skills, he has been contributing as a volunteer to various standard committees, conferences, scientific journals, international organizations and technical panels.

SKILLS

Structural Engineering
Maritime Engineering
Civil Engineering
Asset Management
Corrosion Management
Risk Analysis and Management
Team leadership
Project Management
FEM/Mathematical Modeling
Tender/EPC Contract
Supervision

MEMBERSHIP

2021 – Chair, PIANC Regional Chapter

2019 – Ports Australia (member of the organizing committee

2019 – Member, Standards Australia

2017 – Member, Australian Wind-Wave Committee

2018-Present: MIAEUST, Australia, Standards Australia

2004-Present: SUT, UK

2003-Present: ASCE, USA

2003-Present: EI, UK

2003-Present, IMAREST, UK

2008-present: Scientific Committee Member, OMAE

LANGUAGES

English (Fluent), Persian (Fluent), Germany (Basic), Arabic (Basic)

EDUCATION

PhD in Structural Eng. (Offshore) | 2003| Newcastle University, UK

MSc in Hydraulic Structures | 1993 | Sharif University of Technology

BSc in Civil | 1991 | University of Ferdowsi

EXPERIENCE

Principal | Beta International Associates| Aug. 2015 – Present

He has been working in various structural and port engineering projects while providing engineering and asset management advices to various port industries across Australia. Some of the highlights are:

- Project management / managing third parties
- Asset management, condition rating and risk assessment
- Preventing maintenance / Intelligent maintenance program
- Structural integrity assessment including FEM
- Developing/modifying documents, standards and guidelines for inspection and repair methodologies
- Repair strategy and management
- Industrial supervisor for RMIT students in Civil/Structural Engineering program
- Intelligent Maintenance System for Port Infrastructure – Digital Twin

Head of Engineering | Behin Tarh Apadana| Sept. 2010 – Aug. 2015

He was involved in various activities such as Project Management, Feasibility Study, Master Plan Study, Basic and Detailed Design, Supervision, Review and Endorsement of various marine, civil and industrial projects including water-borne structures.

Head of Port & Offshore Eng. | TNA| Sept. 2004 – Sept. 2010

He was involved in various consultation activities in Port Planning and Design, Industrial LNG, Oil and Gas Plants, Pipelines, Official Buildings and Coastal Residential Houses.

Head of Ocean Eng. | Water Research Centre| Feb. 1997 – Aug. 1999

He was involved in various physical and mathematical modeling of ports, harbors, Breakwaters, Revetments, Sediment Transport and coastal morphology studies.

Senior Port & Coastal Eng. | SPI| Sept. 1991 – Feb. 1997

He was involved in various consultation activities as a Civil Engineer, Hydrodynamic Expert, Marine Structure Specialist and Structural Engineer.

PROJECTS

Structural Engineering

- Developing a New Asset Ranking and Condition Rating for Various Maritime Structures
- Structural Analysis of DBCT Berths, DBCT
- Repair Methodology for Headstock, DBCT
- Various Repair Methodologies for in loading and off-loading Facilities, DBCT
- Structural FEM for T11, S3, DBCT
- Structural FEM for T12, S4, DBCT
- Concrete Floor Intersection Analysis at Steel Column Intersection, Drive Towers, DBCT
- Pile Utilization for Uneven Substantial Corroded Sections
- Design of Mahshar Oil Terminal Jetties and Industrial Facilities (Detailed Engineering), NIOEC
- Structural Design of Phase III Terminal Container (SRP)
- IR LNG Package III, Engineering Supervision (document review and approval of offshore structures)

Coastal, Port and Offshore Engineering

- 18400 TEU Container Ship Simulation Study (SRP)
- Evaluation of The Existing Navigational Aids and The Design of Access Channel Including the Adjustment of The Transit Lights (SRP)
- Basic Design of Phase III Terminal Container (SRP)
- Marketing Study of Suza Port
- Preparing EPC Tender Document for The JSOT Oil Terminal and Spms
- Basic Design of Khazar Marina Port in Caspian Sea
- Design of Phases I & II Shipbuilding Complex at Arvand Coast
- Developing a Master Plan for 12 Commercial Ports – Strategic and Detailed Planning (TNA-HPC)
- Master Development Plan of TOMBAK LNG Plants, Tombak LNG (jointly with Sofregaz and Total)
- Basic Engineering of Mahshar Import/Export Oil Terminal Revamping Project (jointly with Royal Haskoning and HR Wallingford), NIOEC
- Design of Mahshar Oil Terminal Jetties and Industrial Facilities (Detailed Engineering), NIOEC
- Design of Rubble Mound Breakwaters (Pars Service Port)
- Inspection of Pardis Petrochemical Marine Pipeline
- EPC Marine Refinery Pipeline, Phases 20 & 21, South Pars Gas Field
- EPC Marine Refinery Pipeline, Phases 9 & 10, South Pars Gas Field
- Design of Import/Export Mineral Port in Bushehr Special Economic Zone
- Basic & Detailed Design of Shore Protection for Mahmudabad Sea Training Complex
- Development Plan and Design of Small Fisheries Ports (EHP, Kandalu, Kani, Doustku, Mesen)
- Tyne Marina Project (East Holborn Development, South Shields)
- Physical & Mathematical modeling of Pars Service Port's Breakwaters and Berthing Structures
- Basic & Detailed Design of MIDHCO Industrial Port

- Development of Khamir Jetty
- IR LNG Package III, Engineering Supervision (document review and approval of offshore structures)
- The Development of Pozm Fishery Port (Basic and Detailed Engineering)
- Sedimentation Study of Bris Port
- Hydraulic & Hydrodynamic Modeler of Bahmanshir River and Navigational Access Channel
- Project Manager/Design Engineer of Freidonkenar Complex Port (Phase I, II and III)
- Project Manager/Design Engineer of Kangan Commercial Port (Phase I, II and III)
- Sedimentation Study for Pozm Fishery Port
- • Design of Rubble Mound Breakwaters for Salakh Fishery Port
- Design of Jask Fishery Port
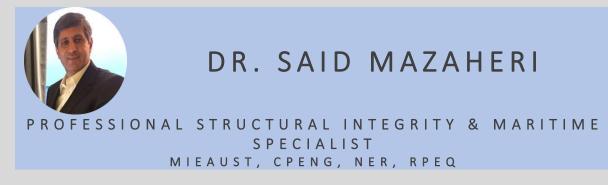
Met-Ocean Engineering

- Providing Met-Ocean Design Criteria for The Design and Installation of Farzad-A Oil Field
- Met-Ocean Monitoring and Analysis of Khark Marine Pipeline
- Design of Met-ocean Network Buoys in Persian Gulf, Gulf of Oman and Caspian Sea
- Met-Ocean Measurements and Analysis of Busher Bay
- Monitoring and Modeling of Met-Ocean Parameters (Wave & Wind) in Hormozghan
- Met-Ocean Measurements and Analysis of Khor-e-Mosa Basin and Water Ways
- Providing Wave Design Criteria for Kong Fishery Port
- Hydrodynamic Modelling of Wave Agitation for Kong Fishery Port
- Hydrodynamic Study of Babolsar Fishery Port
- Met-Ocean Measurements and analysis for Deylam-Ghenaveh Ports

Geotechnical Engineering

- Design of various small earth dams
- Design a Deep In-Situ Concrete Retaining Wall (SRP)
- Preparing SoW for Geotechnical Investigation (JSOT)
- Dynamic Compaction Study of a Container Terminal (SRP)
- Slope Protection of Mahshahr Esturay
- Basic & Detailed Design of Sheet-Piled Structure for Fishing Berth (Anzali)
- Shore protection Plan and Design of Khormashar Port (In-land Port)
- Design of Mahmood Abad Coastlal Protection Plan
- Bank Protection of Khamir Jetty

Civil Engineering

- Residential Building Planning and Design (Khazar)
- Risk Analysis and Management Study (SRP)
- Preparing EPC Document for Storage Tanks (JSOT)
- Preparation of EPC Tender Documents for the Phase III Terminal Container for Rajaee Port
- Feasibility Study of Offshore Fabrication Yards in Qeshm Free Zone

- Senior Advisor, Study on finding durable concrete design for construction works adjacent to harsh coastal and marine environment
- Reformation & Optimization of Transportation System of Golgohar Iron Ore
- Design of Leisure Touristic Site (Mahmoodabad- Caspian Sea)
- Supervision of Phases 1 & 2 Container Terminal of SRP (TNA-Halcrow)

Water Engineering

- Detailed Design of Flood Transfer Channel in Phases 20 & 21 in South Pars Gas Field
- Expansion Capacity of South Pars Water Intake (Phases 8 & 9)
- In-Situ Measurements and Data Analysis of Bahmanshir River
- Hydraulic Studies of the Shrimp Breeding Basins and Channels (Bushehr)
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ACCOMPLISHMENT

2018 Metro Tunnel & Westgate Tunnel Overview, Australia

2018 Dangerous Goods Through Tunnels, Australia

2018 Rock Fall Protection: Practical Risk Assessment, Effective Design and Safe Installation, Australia

2018 New Approaches to Driven Pile Acceptance, Australia

2018 Victoria's Long-Term Water Resource Assessment and Sustainable Water Strategies, Australia

2018 State of Engineering in Victoria, Australia

2018 Engineers Australia Energy Thought Leaders Series: Get the most out of your Industrial Gas Engine, Australia

2018 Solar-The Future of Sustainable Energy, Australia

2009 Certificate on Sea Wave Monitoring & Modeling, Baird and Associates

2008 Certificate on Marine Pipeline Engineering, ASME & CLARION, Houston, TX, USA

2006 Certificate on Port Master Plan, Port Training Institute GmbH (HPTI Hamburg)

COMPUTER SKILLS/MATHEMATECIAL MODELS

Civil Engineering/Structure/Geotechnics

- ANSYS
- Strand 7
- Space Gass
- AutoCAD
- SAP
- ETABS
- Plaxis
- MATLAB

Hydrodynamics

- MIKE21
- WAVEWATCH III
- SWAN
- ANSYS (AQWA)
- MOSES
- SACS
- SAMRES
- SHIPMA

TAUGHT COURSES

Engineering Mechanics (Statics), Hydraulics, Marine Hydrodynamics, Marine Geotechnics, Offshore Engineering, Computational Fluid Dynamics, Fluid-Structure Interactions, Marine Pipeline Engineering, Design of Ports and Coastal Structures, Water Wave Mechanics, Marine Renewable Energy

SUPERVISED THESIS

He has supervised/co-supervised more than 20 MSc and PhD dissertations in the fields of civil and ocean engineering

PUBLISHED BOOKS/PAPERS/ARTICLES

He has supervised/co-supervised more than 20 MSc and PhD dissertations in the fields of civil and ocean engineering