Curriculum Vita; updated in Dec. 2025

• *Personal Information*

Name	**Hassan Akbari**
Birth , Nationality	September 1980, Iranian
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Address, Phone No., E-mail	Office 6/603, Department of civil and environmental Engineering, Tarbiat Modares University, Nasr, Jalal Ale-Ahmad, Tehran, Iran P.O.Box:14115-397 Tel.:+98(21)82883906 ; +98(912) 6840036 E-mail: Akbari.h@modares.ac.ir; Akbari_Hasan@yahoo.com

• *Honors*

- Distinguished Researcher of the Tarbiat Modares University in 2024
- Distinguished Paper of the 19th Marine Industries Conference, "*Improving the performance of SPH in modeling friction boundaries with GPU parallel processing* ", Kish Island, Iran, 2017
- Distinguished Paper of the 7th International Offshore Industries Conference, "*2D modeling of wave sloshing in a tank with harmonic base rotation in Lagrangian coordinate*", Sharif University, Tehran, Iran, 2017
- 1st rank in Ph.D. graduations in Marine Structures, University of Tehran, Tehran, Iran,2013
- 1st rank at the Ph.D. entrance Exam in Marine Structures, University of Tehran, Tehran, Iran, 2005
- 1st rank in M.S. graduations in Marine Structures, University of Tehran, Tehran, Iran, 2005
- 17th rank at the M.S. global entrance Exam in Iran in Civil engineering, Iran, 2002
- Rank under 100 among more than 1e6 candidates at the B.S. entrance (Konkoor) Exam in Iran, 1998

• *Education*

Certificate	Field of study	Grade average /20	School/ University	Grad. year	Thesis
Diploma	Mathematic	19.30		1998	–
B.S.	Civil Eng.	16.08	University of Tehran	22 Jul. 2002	–
M.S.	Marine Structures	17.71	University of Tehran	20 Aug. 2005	*Title:* Nonlinear-Dynamic analysis of mono-pile under ship impact considering large deformation effects *Supervisor:* Dr. Khosro Bargi
Ph.D.	Marine Structures	18.29 *Thesis Grade:* Excellent	University of Tehran	13 Apr. 2013	*Title:* Simulation of free surface flow interaction with saturated porous media using an improved SPH method *Supervisor:* Dr. Masoud Montazeri Namin *Adviser:* Dr. Soheil Mohammadi

- ***Some Industrial and Employment Experiences***

Company	Country	Year	Field of Cooperation
Sazeh Pardazi Iran Consultant Engineering	Iran	2002 - 2005	Senior expert in numerical modeling and coastal engineering
University of Tehran	Iran	2004 - 2006	Responsible of soil laboratory in School of Civil Engineering, College of Engineering, University of Tehran
Sazeh & Jarf Sazeh Consultant Engineering	Iran	2004 - 2005	Senior expert in structural design and offshore engineering
Sahel Consultant Engineering	Iran	2005 - 2018	Project Manager for oil and gas projects Senior expert in Numerical modeling and coastal engineering
Tarbiat Modares University: School of Civil engineering, Dep. Of Marine Structures	Iran	2014 - Now	**Associate Professor,** from 2020 **Assistant Professor,** from 2014 to 2020 **Head of departments** "Hydraulic structures" from 2019 to 2021 **Head of departments** "Marine Structures" from 2019 to Now **Deputy Dean for Research and Technology**, from 2021 to Now

- ***Some Scientific Experiences***

Activity	Date
Supervisor expert of Geotechnical laboratory, School of Civil Engineering, College of Engineering, University of Tehran, Iran Supervision of installing soil laboratory equipment such as centrifuge, shaking table, Hollow 3D cylindrical test, …,	2004-2006
Reviewer for international scientific journals - Coastal Engineering (CE) - Ocean Engineering (OE) - Coastal Engineering Journal (CEJ) - Applied Ocean Research (APOR) - Ocean modeling (OM) - Engineering Science and Technology - Journal Of Marine Science and Engineering (JMSE) - Water - Iranian Journal of Science and Technology, Transactions of Civil Engineering (ISTC) - Journal of Hydrogeology & Hydrologic Engineering (JHHE) - International Journal of science and technology (Scientia Iranica) - And many Iranian journals and Conferences … - …	From 2012

- ***Some Teaching Experiences***

Activity	Date
Teaching technical software "Mike21/3" and "Litpack" in - Port and Maritime Organization (PMO), Iran, 2011 - Maritime Transportation Road, Housing & Urban Development Research Center, 2014 - Water Engineering Research Institute (WERI), 2015 - Water Engineering Research Institute (WERI), 2016	From 2011
Teaching post graduate courses: Department of Civil and Environmental Engineering, Tarbiat Modares University, Iran - Coastal Engineering (MSc) - Dynamics of Marine Structures (MSc) - Offshore structures (MSc) - Marine Hydraulics (MSc) - Computational Fluid Dynamics (MSc) - Numerical methods in marine engineering (MSc) - Mesh-Free Methods (PhD) - Sediment Engineering (PhD) - Design of special marine structures (PhD) - Webinar about industry experiences in designing special marine structures (2021)	From 2014 TMU
Supervisor (Sample Thesis): - Ali Sasani; "Efficiency of SPH-GPU in modeling wave run-up", *2017* - Amir Taherkhani; "Wave interaction with composite breakwater with SPH", *2017* - Mohammad Arian; "Omega-shaped bays in the southern coast of IRAN", *2017* - Ali Rafie; "Investigating the Effect of TLCD on Dynamic Behavior of Offshore Jacket-type Platforms", *2018* - Ali Pouyarad; "Irregular wave loading on sub-sea pipeline on porous bed via SPH method", *2018* - Negar Sadeghi; "Short-term vessel traffic forecast of ports with combined methods", 2019 - Mohammad Torabbeigi; "Wave interaction with berm breakwater using SPH_DEM method, *2020* - Arian Iranpour; "Probabilistic effect of long-term soil parameters of the performance of pile-deck jetties, *2020* - Mohammad Mirzaie; "3D simulation of caisson-type composite breakwater based on porous rubble mound against specteral waves, *2020* - Zahra Ghanbari;"", 2021_ Melika Mohammadbeigi;"", 2021_ Amir Babalooyi,"", 2021 - Abolfazl Abdian;"", 2022_ Samad rasoulpour;"", 2022 - Omid Karbasi;"", 2023 - Pouya Zarbipour;"", 2024 - … *Adviser (Sample PhD Thesis):* - Soheil Radfar; "Probabilistic design of breakwaters", PhD Thesis, Tarbiat Modares University, *2021* - Ali Ehsani-Moghaddam; "performance based design of composite breakwaters", PhD Thesis, Tarbiat Modares University, *2021* - Mahyar Pourlak; "Improving the efficiency of SPH methods by investigating initial and rearrangement of particles", PhD Thesis, Qom University, *2022* - Mahmoud rahmani Firoozjaie " Study of the effect of geometrical and hydraulic parameters on seawater intake for using desalination plants" , PhD Thesis, University of Tehran, *2024* - ..	From 2014 TMU

- ***Journal Papers; ISI***

Title	By	Year	Journal
A quasi-3D SPH model to simulate wave interaction with permeable breakwaters	Akbari H., Mohamadbeiki M.	2026	Coastal Engineering (104938), 1-31 (**Q1**)
Quantum machine learning for wave overtopping estimation: Integrating with causal inference and uncertainty quantification	Zarbipour P., Akbari H., Nikoo M.R.	2026	Ocean Engineering 343, (123482), 1-18 (**Q1**)
Hydrodynamic Performance of Seawater Intake Structures through Numerical Modelling and Particle Image Velocimetry	Firozjaei et al.	2025	Water 17 (2607), 1-29 (**Q2**)
Reliability design of seawater desalination outfalls based on a novel probabilistic environmental assessment	Zarbipour P., Akbari H.	2024	Ocean Engineering 313 (119465), 1-21 (**Q1**)
Modeling wave dynamics with coastal vegetation using a smoothed particle hydrodynamics porous flow model	Torabbeigi et al.	2024	Ocean Engineering 311 (118756), 1-22 (**Q1**)
Development of desalination plants within the semi-enclosed Persian Gulf	Rasoulpour S., Akbari H.	2024	Applied Water Science 14 (189), 1-29 (**Q1**)
Fully spectral approach to evaluate the performance of floating wave energy converters in directional complex sea states	Adibzade M., Akbari H.	2024	Ocean Engineering 306 (117999), 1-20 (**Q1**)
Numerical simulation of aeration impact on the performance of a-type rectangular and trapezoidal piano key weirs	Souri et al.	2024	Modeling Earth Systems and Environment 10, 5205-5224
Overturning response analysis of submerged free-standing blocks and towers subjected to sinusoidal pulses	Hajirezaei et al.	2024	Structures 64 (106617), 1-15 (**Q1**)
Discharge performance of a submerged seawater intake in unsteady flows: Combination of physical models and decision tree algorithms	Firozjaei et al.	2024	Journal of Water Process Engineering 60(105198), 1-12 (**Q1**)
Hydraulic performance of bottom intake velocity caps using PIV and OpenFOAM methods	Hajebi et al.	2024	Applied Water Science 14 (38), 1-13 (**Q1**)
Evaluation of seawater intake discharge coefficient using laboratory experiments and machine learning techniques	Firozjaei MR., Naeeni STO., Akbari H.	2024	Ships and Offshore Structures 19(9), 1394-1407 (**Q2**)
Spectral approach to evaluate multi-body floating wave energy converters in complex sea states	Adibzade M., Akbari H.	2023	Ocean Engineering 286 (115567), 1-17 (**Q1**)
Influence of near-field ground motions and their equivalent pulses on nonlinear seismic response of intake-outlet towers and predicting based on artificial neural networks	Bigdeli et al.	2023	Structures 52, 1051-1070 (**Q1**)
A Study of Nappe Oscillations and Effects of Aeration on Environmental Noise of Piano Key Weirs with Different Shapes	Souri et al.	2023	Iranian Journal of Science and Technology, Transactions of Civil Eng. 47, 1813–1830
Experimental evaluation of two-layer air bubble curtains to prevent seawater intrusion into rivers	Kahrizi et al.	2023	Journal of Water and Climate Change 14 (2), 543-558 (**Q2**)
Importance of Initial Particle Distribution in Modeling Dam Break Analysis with SPH	Pourlak M., Akbari H., Jabbari E.	2023	KSCE Journal of Civil Engineering 27 (1), 218-232
Investigation of the performance of the response surface method to optimize the simulations of hydraulic phenomena	Naeeni et al.	2023	Innovative Infrastructure Solutions 8 (1), 10 (**Q2**)

Impact of copula model selection on reliability-based design optimization of a rubble mound breakwater	Radfar S., Shafieefar M., Akbari H.	2022	Ocean Engineering 260: 112023 (**Q1**)
Long-Term Traffic Forecast Using Neural Network and Seasonal Autoregressive Integrated Moving Average: Case of a Container Port	Sadeghi et al.	2022	Transportation Research Record: 1-17
The effect of sequential storms on the performance of homogeneous berm breakwaters	Akbari H., Karami M. A.A., Shafieefar M.	2022	Coastal Engineering 175: 104141 (**Q1**)
A probabilistic approach to predict wave force on a caisson breakwater based on Bayesian regression and experimental data	Ehsani M. R., Shafieefar M., Akbari H.	2022	Ocean Engineering 249: 110945 (**Q1**)
Reliability-Based Analysis of a Caisson Breakwater with the Application of Bayesian Inference	Ehsani M. R., Shafieefar M., Akbari H.	2021	Journal of Marine Science and Application 20: 735–750
Design of a rubble mound breakwater under the combined effect of wave heights and water levels, under present and future climate conditions	Radfar et al.	2021	Applied Ocean Research 112: 102711 (**Q2**)
SPH modeling of wave interaction with reshaped and non-reshaped berm breakwaters with permeable layers	Akbari H., Torabbeigi M.	2021	Applied Ocean Research 112: 102714 (**Q2**)
Multi-peaked directional wave spectra based on extensive field measurement data in the Gulf of Oman	Adibzade et al.	2021	Ocean Engineering 230: 109057 (**Q1**)
Wave force on protected submarine pipelines over porous and impermeable beds using SPH numerical model	Akbari H., Pouyarad, A.	2020	Applied Ocean Research 98: 102118 (**Q2**)
Improvement of double-peaked spectra: Revisiting the combination of the Gaussian and the JONSWAP models	Akbari H., Panahi R., Amani L.	2020	Ocean Engineering 196: 106965 (**Q1**)
Numerical study of wave run-up and overtopping considering bed roughness using SPH-GPU	Sasani A., Akbari H.	2019	Coastal Engineering Journal 61(4), 502–519 (**Q2**)
An Improved Particle Shifting Technique for ISPH Methods	Akbari H.	2019	International Journal for Numerical Methods in Fluids 90 (12), 603–631 (**Q2**)
A double-peaked spectrum for the northern parts of the Gulf of Oman: Revisiting extensive field measurement data by new calibration methods	Akbari H., Panahi R., Amani L.	2019	Ocean Engineering 180, 187–198 (**Q1**)
Numerical study of wave interaction with a composite breakwater located on permeable bed	Akbari H., Taherkhani A.	2019	Coastal Engineering 146, 1–13 (**Q1**)
Simulation of Wave Overtopping using an Improved SPH method	Akbari H.	2017	Coastal Engineering 126, 51–68 (**Q1**)
Modified moving particle method for modeling wave interaction with multi layered porous structures	Akbari H.	2014	Coastal Engineering 89, 1-19 (**Q1**)
Moving particle method for modeling wave interaction with porous structures	Akbari H., Namin M.M.	2013	Coastal Engineering 74, 59-73 (**Q1**)

- ***Journal Papers; ISC***

Title	By	Year	Journal
Reliability Analysis of Berm Breakwaters based on the environmental data on the Northern coasts of Oman sea	Zarbipour P., Akbari H.	Accept	International Journal of Coastal and offshore Engineering IJCOE
Improving the Hydraulic Performance of a Composite Perforated Caisson Breakwater by Changing the Front Face Geometry/ In Persian	Arbasi O., Akbari H.	Accept	Modares Civil Engineering Journal
Performance Analysis of Ports Based on the Concepts of Risk, Resilience, Reliability, and Sustainability with a Special Focus on Shahid Rajaee Port	Hasani A.Y., Akbari H.	2025	International Journal of Maritime Technology 21 (2), 35-45
Numerical modeling of the evaporation effect on the salinity of Persian Gulf/ In Persian	Rasoulpour S., Akbari H., Rezaei M.A.	2024	Modares Civil Engineering Journal 24 (5), 7-20
Effect of initial distribution of particles on modeling water surface changes due to object sliding over inclined slope by SPH/ In Persian	Pourlak M., Jabbari E., Akbari H.	2024	Modares Civil Engineering Journal 24 (4), 151-161
Numerical Investigation of Bottom Intake Structure for Desalination Plants	Firozjaei et al.	2024	Numerical Methods in Civil Engineering 8(3); 1-9
The effect of initial particles distribution in smoothed particle hydrodynamic method in wave generation modeling based on laboratory model	Pourlak M., Jabbari E., Akbari H.	2023	Civil Infrastructure Researches
Numerical Study of scouring due to dam break using two phase Lagrangian model/ In Persian	Parizadeh A., Akbari H.	2022	Water Resources Engineering Journal
Maritime Traffic Complexity Visualization: A New Method for Identification of High Opportunity and High Risk Areas	Allahmoradi et al.	2021	International Journal of maritime technology 16: 53-61
Lagrangian Modeling of Regular Wave Effect on Sea Pipeline on Permeable Sea Bed/ In Persian	Pooyarad A., Akbari H.	2021	Journal Of Marine Engineering 17 (33), 1-10
Evaluation of near miss ship collision with consideration Non-Conventional vessels in Northeast of Qeshm Island/ In Persian	Edraki et al.	2021	Sharif Journal of civil Engineering 36.2 (4.2-4), 111-119
Detailed vibrational analysis of unbalanced morning glory spillways using coupled finite volume-finite element method	Mirabi M., Akbari H., Alembagheri M.	2021	SN Applied Sciences3: 88 (2021), Springer
An Investigation on Application of Filter Layer in Reshaping Berm Breakwaters/ In Persian	Karami M., Shafieefar M., Akbari H.	2020	Modares Civil Engineering Journal 20 (5), 165-177
Forecasting Short-term Container Vessel Traffic Volume Using Hybrid ARIMA-NN Model	Sadeghi N., Akbari H., Panahi R.	2019	International Journal of Coastal and offshore Engineering IJCOE 3(3), 47-52
Normalized Average Multi-Criteria Decision Making Method for Prioritizing Proper Coasts for Desalination Plants / In Persian	Akbari H.	2019	Journal of Oceanography 10(38), 123-131
Comparison of Environmental and Structural Parameters Affecting on Deformation and Hydraulic Stability of Reshaping Berm Breakwaters/ In Persian	Karami M., Akbari H., Shafieefar M.	2019	Journal of Environment and Water Engineering 5(3), 226-238
Improving Boundary Condition in Wave Run-up Simulation using SPH-GPU/ In Persian	Sasani B.A., Akbari H.	2019	Modares Civil Engineering Journal 19 (3), 83-94
Effect of New Structures at Headland of Crenulate-Shaped Bays on the Equilibrium Shape of Bays in Mokran Coasts	Arian M., Akbari H., Hosseini S.M.	2019	International Journal of Coastal and offshore Engineering IJCOE 3(1), 11-20
Wave Interaction with Caisson Breakwater Considering Large Sliding Movements in Mesh-Free Lagrangian Coordinate/ In Persian	Taherkhani A., Akbari H.	2019	Journal Of Marine Engineering 14 (28): 109-116

Experimental Study Effects of Irregular Wave Parameters on Berm Recession of deformed profile Berm Breakwaters/ In Persian	Karami M., Shafieefar M., Akbari H.	2019	Journal Of Marine Engineering 14 (28) :77-90
Evaluation of Incompressible and Compressible SPH Methods in Modeling Dam Break Flows	Akbari H.	2018	International Journal of Coastal and offshore Engineering IJCOE 2(1), 45-57
Nonlinear interaction of quay wall and soil for design purposes/ In Persian	Akbari H.	2017	Modares Civil Engineering Journal 17 (3), 9-20
Effects of Soil Modulus and Flexural Rigidity on Structural Analysis of Water Intake Basins	Akbari H.	2017	Civil Engineering Journal 3 (3), 172-179
Dynamic analysis and design of mono-pile under ship impact considering the nonlinear soil-structure-water interaction	Akbari H., Bargi Kh.	2005	faculty of engineering journal, University of Tehran 39 (5), 571-582

- ***Conference Papers (Samples)***

Title	By	Year	Conference
Repair and improvement of hydraulic performance and stability of traditional rock mass breakwaters	Jafarloo M., Akbari H.	2025	14th International Congress on Civil Engineering, Sharif University
Prediction of Chlorophyll-a Dynamics in the Persian Gulf Using a Hybrid CNN-LSTM Model with Remote Sensing Time Series and Causal Analysis	Zarbipor P., Kazemi C.A., Akbari H.	2025	9th International Offshore Industries Conference, Sharif University
Assessment of the Spread of Desalination Plant Effluent Study Area: Saqi Koothar Desalination Plant, Bandar Abbas	Zarbipor P., Akbari H.	2024	1st International Conference on Blue Economy
Numerical study of the flow around the bridge foundation in the rigid bed with OpenFOAM software	Omidvar M.H, Salehi A.A., Akbari H.	2022	2nd Int. Conf. on Arch., Civil Eng. Urban Dev., Environmental …
Factors affecting the seismic response of marine piles	Iranpour A., Akbari H., Zarin M.	2020	8th National Conference on Civil Eng., Arch. and Sus. Urban Development
3D modeling of perforated caisson breakwaters against irregular waves	Mirzaie, M., Akbari, H.	2019	21th Marine Industries Conference (MIC2019)– Qeshm Island
Numerical study of the effect of submerged breakwater porosity on its hydraulic response	Torabbeigi, M.R., Akbari, H.	2019	6th National conference on applied research in civil engineering
Design and Development Strategy of Iranian Ports Based on Sustainability and Resilience	Mehrvar, E., Namdari, H., Akbari, H.	2019	8th International Offshore Industries Conference, Sharif University, Iran
Study of new vibration control methods for marine offshore structures	Mehrvar, E., Akbari, H.	2019	6th National conference on applied research in civil engineering
A combined wave absorber method for SPH models	Pouyarad, A., Akbari, H.	2018	ICOPMAS,13th
Modeling wave load on pipeline located on permeable bed using SPH	Pouyarad, A., Akbari, H.	2018	MIC; 20th Marine Industries Conference, Kish
Improving performance of SPH in modeling friction boundaries with GPU parallel processing (**Distinguished paper**)	Sasani, B., Akbari, H., Taherkhani A.	2017	MIC; 19th Marine Industries Conference, Kish
Development of dynamic boundary condition in modeling the interaction between fluid and floating body	Taherkhani A., Akbari, H., Sasani, B.	2017	MIC; 19th Marine Industries Conference, Kish
Improvement of boundary conditions in modeling wave run up in Lagrangian coordinate	Sasani, B., Akbari, H., Taherkhani A.	2017	16th Iranian Hydraulic Conference,
Modeling of dam break flow interaction with porous media using weakly compressible SPH	Taherkhani A., Akbari, H., Sasani, B.	2017	16th Iranian Hydraulic Conference,
Wave and Current Forces Along a Pipeline from Kish Island to the Main land of Iran	Akbari, H.	2017	7th International Offshore Industries Conference, Sharif University, Iran
2D modeling of wave sloshing in a tank with harmonic base rotation in Lagrangian coordinate (**Distinguished paper**)	Radfar, S., Akbari, H.	2017	7th International Offshore Industries Conference, Sharif University, Iran
Effects of Soil Modulus and Flexural Rigidity on Structural Analysis of Water Intake Basins	Akbari, H.	2017	4th National conference on appl. Res. in civil eng., arch.and urban manag.
Near field mixing of Multi-Diffuser Dense Jets in Shallow water condition and Ambient Currents	Akbari, H., Ebrahimi, M.H.	2016	15th Iranian Hydraulic Conference
Modeling of single pipe under lateral load with nonlinear soil interaction	Allahmoradi, G., Akbari, H.	2016	MIC; 18th Marine Industries Conference, Kish
Evaluating the importance of hydrodynamic forces on the submarine pipes	Akbari, H.	2016	MIC; 18th Marine Industries Conference, Kish
The advantages of Multilayer berm breakwaters	Hosseini, M., Akbari,	2016	ICOPMAS,12th

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Optimum Wharf type in soft soils; A case study for Mahshsahr	Akbari, H., Soleimani, K.	2016	ICOPMAS,12th
A reliable method for design of gravity quaywalls; a case study for Shahid Beheshti port	Akbari, H., Hosseini, M.	2016	ICOPMAS,12th
Modeling nonlinear soil-pile-beam interaction for a long crane beam subjected to longitudinal loads	Akbari, H.	2016	1st International conference of civil engineering, Tehran
Numerical Modeling of Non-Cohesive Contact in Multi-Body Hydrodynamic Systems with SPH,	Mohajeri, et al.	2016	ICCE'16; 35th coastal engineering; Istanbul, Turkey
Stability and accuracy of compressible and incompressible SPH methods in simulating turbulent free surface flows	Akbari, H.	2014	ICOPMAS,11th
Increasing berm Breakwater stability based 2D and 3D physical modeling tests results: Case study of Shahid Beheshti Breakwater	Hosseini, M., Akbari, H.	2012	ICOPMAS,10th
Enhanced Monte Carlo joint probability analysis of tide, storm surge and wave height in Chabahar	Akbari, H., Hosseini, M.	2012	ICOPMAS,10th
Evaluating design formulas of berm breakwater by means of physical modeling and in situ surveying: case study of Shahid Beheshti breakwater	Hosseini, M., Akbari, H.	2010	ICOPMAS,9th
Joint probability analysis of wave height, storm surge and tidal elevation in Chabahar	Akbari, H., Hosseini, M.	2008	ICOPMAS,8th
Numerical simulation of heat dissipation in Paresar power plant design considering the near field and far field domains	Hajmomeni, A., Akbari, H., Badie, P.	2006	ICOPMAS,7th
Numerical simulation of heat dissipation in Neka power plant	Hajmomeni et al.	2004	ICOPMAS,6th
Comparison of different wave generation methods from wind data based on SPM1984 and CEM manuals	Akbari, H., Navari, M., Borouzi, S.	2004	ICOPMAS,6th
And …			

- ***Some Professional Experiences***

Numerical modeling, Sample projects:
Investigating the sedimentation in Kiashahr port located at the northern coasts of Iran
Numerical modeling of hydrodynamic and sedimentation condition for the Dargahan port located at the Gheshm Island
Numerical modeling of hydrodynamic and sedimentation condition for the Sirik port located near the Strait of Hormuz
Numerical modeling of hydrodynamic and sedimentation condition for the Bahregan port located in the Bushehr province
Numerical modeling of hydrodynamic and sedimentation condition for the Shahid Beheshti port in the Chabahar bay
Numerical modeming of Zangi and Jafari estuaries in Khoozestan province for their improvement studies
Numerical modeling of hydrodynamic and thermal dispersion of the Neka power plant located at northern coast of Iran
Numerical modeling of hydrodynamic and thermal dispersion of the Paresar power plant located at northern coast of Iran
Study and numerical modeling of the hydrodynamic and sedimentation condition for the Mahshahr port
Modeling hydrodynamic and thermal dispersion of Kavian water desalination, Design intake and outfall location
Modeling hydrodynamic and thermal dispersion of Damavand water desalination, Design intake and outfall location
Modeling hydrodynamic and thermal dispersion of Bandarabbas water desalination, Design intake and outfall location
Modeling hydrodynamic and thermal dispersion of Phase 9&10 Assaluyeh intake, Design intake and outfall location
Modeling hydrodynamic and thermal dispersion of Phase 13 Assaluyeh intake, Design intake and outfall location
Modeling hydrodynamic and thermal dispersion of Phase 22,23, 24 of Assaluyeh intake, Design intake and outfall location
Modeling the hydrodynamic and salinity dispersion of Phase14 water intake and finding its intake and outfall location
Modeling hydrodynamic and thermal dispersion of Kish water intake and finding its intake and outfall location
Simulating hydrodynamic and thermal dispersion of Tonbak LNG water intake and locating its intake and outfall
Numerical modeling of wave propagation and hydrodynamic condition along the submarine pipeline from the Kish Island
Hydrodynamic and thermo-hydrodynamic condition for all the southern coasts of Iran and preparing regional maps used for locating the water intake systems in southern provinces of Iran
Modeling the hydrodynamic and salinity dispersion of Kangan water intake and finding its intake and outfall location
Study and numerical modeling of hydrodynamic wave and current conditions near the Lavan Island
And many others …

Detail Design of marine structures , Sample projects:
Basic study to find the best location for Hendoorabi exploration jetty and hydrodynamic studies
Basic study to find the best location for Kavian temporary jetty
design extension layout for Babolsar Port breakwater and study the diffraction and wave propagation
Design the checking the hydraulic stability of submarine pipeline cover from the Kish Island
Design the checking the hydraulic stability of submarine pipeline cover located between Lavan and Nakhiloo
Design the cover of water intake pipeline for Pardis Intake in Assaluyeh and checking its stability under wave conditions
Design the cover of water intake pipeline for Kavian Intake in Assaluyeh and checking its stability under wave conditions
Design the cover of water intake pipeline in Assaluyeh, Phase 15, 16 and checking its stability under wave conditions
Structural design of platforms in Kermanshah petrochemical plant
Structural design of substation building in Kavian petrochemical plant located in Assaluyeh
Structural design of concrete segments of subway tunnel, route No.4 in Tehran
Structural design of concrete blocks of Shahid Beheshti quay wall
Structural design of crane beam and its piles for Shahid Beheshti port

Design different alternatives (Berm, conventional and concrete armors) for Shahid Beheshti breakwater
Hydraulic and geotechnical design of Shahid Beheshti extension breakwater located in Chabahar bay
Design the berthing and mooring system of Shahid Beheshti port located in Chabahar bay
Design an improvement system for Shahid Kalantari breakwater located in Chabahar bay
Hydraulic and geotechnical design of Amirabad extension breakwater in northern coasts of Iran
Hydraulic and geotechnical design of Barkhan breakwater sections and layout in Bushehr province
Design the coastal protection and flare jetty for the Kangan plant
Basic Design of breakwater of Jask terminal with different alternatives
And many others …
Management, Sample projects with Industry:
Management and Cooperation in preparing different proposals such as NGL1800, NGL2300, CFU100, CFU200, Bushehr intake system, Nashpa refinery plant and …
Management for setting up Dorsa system for engineering, documentation, procurement and construction activities for NGL Kharg as general contractor
Project manager of interconnecting subproject of NGL Kharg as general contractor
Project manager of integration subproject of NGL Kharg as general contractor
Project manager of the design of intake and outfall locations for Mokran water intake, near&far field numerical modeling
Project manager of optimizing Intake and outfall locations for Gurdim water desalination system and numerical modeling
And many others …
Research Projects with University, Sample projects:
Physical modeling of Tombak Breakwater in Shohadaye Khalij Fars Laboratory, Project Partner
Physical modeling of Larim Breakwater in TMU Laboratory, Project Supervisor
Physical modeling of Shahid Rajaee coastal protection development in TMU Laboratory, Project Partner
Construction and physical modeling of armor in Bandar Parsian project (Phase I) in TMU Laboratory, Project Partner
Construction and physical modeling of armor in Bandar Parsian project (Phase II) in TMU Laboratory, Project Partner
Conditions of new desalination plants in the southern coasts of Iran, client: Ministry of Energy, Project Supervisor
Upgrading the wave Maker of TMU, writing and updating the wave generation & analysis software, Project Supervisor
Physical modeling of Gishab Water intake Culvert
Parsian Industrial Port Breakwater Expansion Physical Model Study
And other projects …

- ***Sample Certificates***

Activity	Company	Date	Field
Quality management principles ISO9001:2000	Sazeh Pardazi Iran Consultant Eng.	2003	Management
Advanced Ansys Software	University of Tehran SID	2004	Structural
National building regulations, Topic 19	Institue for productivity and human resource development (IPHRD)	2011	Building
Project claim management	Ariana industrial and research group	2011	Management
Risk management in EPC projects	Moravejan Bahrevari Co.	2012	Management
Project manager competency development framework (PMCDF) standard	Bonyan	2012	Management
Project Management Body Of Knowledge (PMBOK):2012	Sahel Consultant Eng.	2014	Management
Explanation & internal audit of - ISO 9001:2008 - ISO 14001:2004 - OHSAS 18001:2007	DQS	2014	Management
Integrated management system (IMS)	Sahel Consultant Eng.	2015	Management
Building courses: - Structural modeling and design software - Resistant systems for concrete and steel structures - Design and retrofitting of masonry buildings	University of science and culture	2015	Building
Management of oceanic metadata	National Institute of Oceanography and Atmospheric Science	2016	Management
…			

- ***Computer Skills***

Software	Field	Skill		
		Moderate	Good	Excellent
MIKE 11,21,3- HecRas, Cormix	Hydrodynamic and Sediment models			✓
Breakwat,Wallap,GeoSlope, Plaxis	Geotechnical design			✓
SACS	Offshore design		✓	
Ansys, Sap2000, Etabs, Safe	Structural design			✓
Matlab, Delphi, Fortran	Mathematical and programming			✓
Microsoft Office, Autocad	General Software			✓

- ***English Language***

Reading	Writing	Speaking
Excellent	Excellent	Good