

Curriculum Vitae

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Professor Hassan Ghassemi,

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Also, **Adjunct Professor** at
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Short Bio:

Professor Hassan Ghassemi is national distinguished professor in maritime engineering.

He studied and worked at different universities (Sharif University of Technology in Iran, Gdansk University of Technology in Poland, Yokohama National University and IHI company in Japan, Memorial University of Newfoundland in Canada, Harbin Institute of Technology (HIT) in China) and he has experienced more than 30 years in teaching and research at different fields of Mechanical, Ocean and Maritime engineering.

He is adjunct professor at Harbin Institute of Technology (HIT), Weihai, Shandong province, Ocean Engineering school, International Group. His current projects are about wave energy converters (WECs), vertical and horizontal axis tidal turbines (VATT and HATT), energy-saving devices (ESDs), marine propulsion, shafting system vibration and ship seakeeping. He did and managed many scientific research and industrial projects regarding the mentioned subjects. Future generation of marine vehicles was one of his big projects with managing different groups.

He is a member of the editorial board of over 10 journals.

Prof. Ghassemi authored over 200 refereed publications and graduated over 150 BSc, 130 MSc, and 25 PhD students.

Academic qualification:

- BSc of Mechanical Engineering, Sharif University of Technology, Iran, 1984-88.
 - MSc of Ocean Engineering, Gdansk University of Technology, Poland, 1991-93.
 - PhD of Ocean Engineering, Yokohama National University, Japan, 1993-96.
 - Associate researcher, IHI, Japan, 1996-98.
 - Post-doctoral, Memorial University of Newfoundland, Canada, 1998-2000.
 - Assistant Professor, Amirkabir University of Technology, 2000,
 - Associate Professor, Amirkabir University of Technology, 2008,
 - Full Professor, Amirkabir University of Technology, 2014.
 - National distinguished professor, 2017.
 - Foreign superior professor at Shandong province, China, 2022.
 - Top 2% of world scientists 2023 and 2024.
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Teaching experience:

Undergraduate:

- ✓ Ships and ocean knowledge,
- ✓ Marine transport,
- ✓ Mechanical vibrations,
- ✓ Fluid Mechanics,
- ✓ Ship hydrostatics and stability,
- ✓ Resistance and propulsion,
- ✓ Seakeeping and maneuvering,
- ✓ High-speed marine vehicles,

Post-graduate:

- ✓ Advanced Hydrodynamics,
- ✓ Marine Propulsor Design,
- ✓ Boundary Element Method (BEM),
- ✓ Computational Fluid Dynamics (CFD),
- ✓ Dynamics of Marine Structures,
- ✓ Renewable Ocean Energy,
- ✓ Multi-hull Ships.

Member of the Editorial Board of the Journals:

- Ocean Engineering (OE),
 - Ships and Offshore Structures (SAOS),
 - Int. Journal of Naval Architecture and Ocean Engineering (IJNAOE),
 - China Ocean Engineering (COE),
 - Journal of Mechanics (JoM),
 - Polish Maritime Research (PMR),
 - Journal of Marine Science and Application (JMSA),
 - Journal of Maritime University of Szczecin
 - International Journal of Coastal and Offshore Engineering
 - American Journal of Mechanical Engineering
 - Ship Science & Technology
 - Int. Journal of Maritime Technology
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Research project experience:

- Energy-saving devices (ESDs),
 - Wave energy technology (WET),
 - Marine propeller and propulsion system,
 - Design of ship propellers for industry companies,
 - The potential of the wave, wind, and tidal energy,
 - A comprehensive software program for propeller design (SPD) by BEM,
 - Technical devices installed on the ship to reduce fuel oil consumption and its pull options,
 - Vibration of shafting system,
 - Analysis of ship accidents,
 - Hydrofoil and control surfaces.
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Interested research:

- RDT propeller,
 - Toroidal propeller,
 - Wave energy technology,
 - VATT and HATT,
 - Marine transportation and route navigation,
 - Ship accident analysis,
 - Optimize the ship transportation route,
 - Wavestar wave energy converters,
 - Dynamic motions of a semi-submersible floating wind turbine,
 - Design of ship propeller and providing SPD software,
 - Seakeeping of planing craft,
 - Design of pump-jet for high-speed craft,
 - Hydrodynamic analysis of the propeller behind the container ship,
 - The vibration of the shafting system of the ship.
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Information Websites:

- https://scholar.google.com/citations?hl=en&user=TSB3NsoAAAAJ&view_op=list_works&sortby=pubdate
 - <https://www.scopus.com/authid/detail.uri?authorId=23008523400>
 - https://www.researchgate.net/profile/Hassan_Ghassemi
 - <https://orcid.org/0000-0002-6201-346X>
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Honors and awards:

- Excellence Award from Marine Industries Conference, 2012,
- Distinguished Professor, 2017,
- Outstanding Performance Award, 2018,
- Excellence paper Awards from JMUS, 2018, Poland.
- Foreign Talent Professor at HIT, 2022, China.

Referees:

- Professor Guanghua He, Harbin Institute of Technology (HIT),
- Professor Pengfei Liu, Newcastle University, UK,
- Professor Neil Bose, Memorial University of NFLD (MUN), Canada,
- Professor David Molyneux, Memorial University of NFLD (MUN), Canada.