

YASSER B. A. Farag

Lecturer of Marine Engineering

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Education

- Master of Science (MSc.), Maritime affairs, World Maritime University ([WMU](#)), November 2017, Maritime Energy Management (MEM) specialization, GPA: 3.81/4.00 with distinction.
- MSc. foundation courses, Marine Engineering, Arab Academy for Science, Technology and Maritime Transport ([AASTMT](#)), 2016, [College of Engineering and Technology](#), GPA 3.92/4.00¹.
- Bachelor of Science (BSc.), AASTMT, [College of Engineering and Technology, Marine Engineering department](#), 2002, first in class, GPA: 3.30/4.00.

Professional Summary

- I have commenced my professional career as a marine engineer on board old and modern commercial ships (mainly VLCCs and Product carriers). During that period, I have gained an in-depth knowledge of the technical side in a well-recognized international shipping company. Additionally, I have acquired valuable experience and directly involved in the ship's planned maintenance, equipment's inspection and testing. Being a seafarer has allowed me to have an insight into how the shipping industry works from inside and recognize the importance of human element to ensure its safe operation.
- A lecturer, AASTMT², [Institute of Maritime Upgrading Studies](#) (IMUS), since 2014.
- In 2016, I was enrolled in a 14 months MSc program at the World Maritime University (WMU³), Sweden where I joined the first patch of Maritime Energy Management specialization (MEM).
- My master thesis, supervised by Prof. [Aykut I. Ölçer](#), was on the topic of "[A decision support system for ship's energy-efficient operation: based on Artificial Neural Network \(ANN\) method](#)". In my research, I utilized high-quality data of a specific ship to design an ANN model that can predict the ship's fuel consumption in the dynamic sea environment. The verified model was then integrated into an optimization model to support the ship's operator during/prior sea voyages.
- I further developed my thesis research by publishing my first academic [paper](#) in the well-known [Ocean Engineering](#) journal.

¹ Still, the thesis is remaining to complete the degree requirements.

² Arab Academy for Science, Technology & Maritime Transport is a regional university operated by the Arab League.

³ World Maritime University of the IMO, a Specialized Agency of the United Nations.

Awards and grants

- Awarded the WMU Chancellor's medal of honour for academic excellence with the most distinguished GPA of 3.81/4.00 amongst other 133 graduates.
- Granted a full scholarship by SASAKAWA (Japan) for WMU Master of Science study.
- First in class of Marine Engineering Bachelor Program (Class 2002).
- First in class in third and second engineer CoC exams (2006, 2010 respectively).

Teaching activities

- Review and teach IMUS CoC⁴ related courses for marine engineering, marine power plants, naval architecture, personnel management, maritime law and simulator⁵ training.
- Teach in the [College of Maritime Transport and Technology](#)-BSc. Level and supervise students' projects.
- Teach in [Maritime Postgraduate Institute](#)-MSc. Level, Smart Environmental and Climate Change Management specialization, Numerical modelling course, Oct-2020.
- Supervise an MSc. Thesis entitled "The Potential Impact of Maritime Autonomous Surface Ships (MASS) on Safety of Navigation".
- Teach several short courses for maritime professionals such as:
 - ✓ [Energy-efficient ship operation](#).
 - ✓ [Engine room resource management course](#).
 - ✓ [MARPOL Annex 1 applications and oil marine pollution prevention course](#).
 - ✓ [Maritime Labour Convention course](#).
 - ✓ Training course for the simulator trainer and assessor (IMO model course 6.10)
 - ✓ [Hull and machinery survey introductory course](#).
 - ✓ [Bunker surveying course](#).
- Maritime Examiner in Egypt's [National Maritime Examination Centre](#).
- **My presentations:** Some of my presentations can be found on the following link: <https://www.slideshare.net/yasserbayoumy1980/presentations>

Activities and projects

Jan-2019 to present	Cluster ACT: Aggregation and Collaboration Tools to enhance cluster network in the maritime sector , European Commission Executive Agency for Small and Medium-sized Enterprises (EASME) Commissions.
Jan-2018 to June 2019	Developing and preparing the Global Maritime Professional (GMP) Book of Knowledge , IAMU.
Since Jan-2108	An active team member of the AASTMT's GMP-BoK team to communicate with the IAMU and develop maritime education and training.
Since 2018	A reviewer at the Journal of Maritime Affairs (JOMA).
Since July 2020	A reviewer at Ocean Engineering Journal.

Language

- IELTS: Overall Band Score 7, Academic module, April 2014.
- IELTS: Overall Band Score 7, General module, June 2014.

⁴ Certificate of Competency for operation and management levels to comply with the STCW as amended.

⁵ TRANSAS full-mission Engine Room Simulator (ERS).

Sea Experience

Ship's name	Ship's type	Company	Period
Altair Star	Product Carrier	Vela Marine Int. ⁶	Dec 2012 - Jul 2013
Alnasl Star	Product Carrier	Vela Marine Int.	Mar 2012 - Sep 2012
Almaizan Star	VLCC	Vela Marine Int.	Apr 2011 - Sep 2011
Alphard Star	VLCC	Vela Marine Int.	Dec 2009 - Apr 2010
Hamal Star	VLCC	Vela Marine Int.	May 2009 - Aug 2009
Hydra Star	VLCC	Vela Marine Int.	Aug 2008 - Feb 2009
Alexia2	Tanker (Aframax)	Pyramid Nav Co.	Mar 2008 - Jul 2008
Alnabila 4	Tanker	Pyramid Nav Co.	Feb 2007 - Sep 2007
Marvic	Tanker (Panamamax)	Pyramid Nav Co.	May 2006 - Jun 2006
Amira	Bulk Carrier	Pyramid Nav Co.	Jan 2006 - May 2006

Courses and training

- 2019-08 Modern teaching strategies, AASTMT.
- 2015-09 National workshop on the implementation and enforcement of the international convention of anti-fouling systems on ships, organized by the IMO.
- 2015-06 Scientific research ethics, AASTMT.
- 2015-02 Training course for the simulator trainer and assessor (IMO model course 6.10)
- 2014-08 Engine Room Simulator ERS 5000 And TECHSIM 5000 Instructor Training
- 2013-10 Chief Marine Engineer Course Duration: 2 months
STCW Certificate of Competency management-level course
- 2011-08 ISM/ISO Implementation
Risk assessment procedure
Risk Management
Quality assurance.
- 2011-03 Advanced oil tanker training program
- 2010-08 Second Marine Engineer Course Duration: 6 months
STCW Certificate of Competency management-level course.

Conferences

- International Association of Maritime University-IAMU Annual General Assembly-AGA20, Tokyo, November-2019.
- IMO, MEPC74 represented the league of Arab states, London, May 2019.
- International Conference of Maritime Energy Management (MARENER), Sweden, January 2017.

⁶ VELA has been merged with BAHRI in 2013 and now is known as [BAHRI](#).

Research Interest

- Maritime Energy Efficiency.
- Maritime Education and Training (MET) development.
- Human Factors and Maritime Safety.
- Statistical Modelling and Data Analysis.
- Data Mining, Artificial Intelligence and Data Modelling.
- Artificial Neural Network (ANN).
- Multi-Objective Optimization and Decision Support Systems (DSS).

Publication

- [The development of a ship performance model in varying operating conditions Based on ANN and regression techniques](#), Ocean Engineering - Volume 198, Feb-2020.
- [A Review of Egypt's Transition to LNG; Challenges and Recommendations](#) (Accepted in Journal of the Arab Institute of Navigation, June 2020)
- [Sustainable Development in Maritime Education and Training; Trends, Challenges and the Way Forward](#) (under review)
- MSc. thesis: [A decision support system for ship's energy-efficient operation: based on artificial neural network method](#) , World Maritime University (WMU), Sweden, November 2017.
- Book: Maritime regulatory framework and IMO's instruments (Arabic) printed in AASTMT, 205 pages, 2016.

References

- **Aykut I. Ölçer**, Professor, Director of Maritime Research; Nippon Foundation Professorial Chair in Marine Technology and Innovation; Head, Maritime Energy Management (MEM) Location: World Maritime University Phone: +46766330620, e-mail: AIO@wmu.se
- **Gamal Ghalwash**, Vice President Location: Arab Academy for Science, Technology and Maritime Transportation Phone: +20 100 163 5116, e-mail: gamalghalwash@gmail.com
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