



PhD Supervisor



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



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Potential areas for PhD supervision:

- Marine Hydrodynamics
- SMART structure in marine/ocean engineering
- Riser & Mooring System

Supervising experience:

- 15 PhD students
- 10 MSc students

Employment history in last 5 years:

2019 – Director of Marine Technology Center (Center of Excellence), Universiti Teknologi Malaysia
2015 – present University Teknologi Malaysia

Membership of professional association:

2021-2022 Secretary of RINA-IMarEST Malaysian Joint Branch – Southern Chapter Session 2021-2022
2018-Present Member, Society of Floating Solutions (SFSS, Singapore)
2011-Present Member, International Association of Ocean Engineer (IAOE, USA)

Education – since bachelor degree:

- ~ PhD in Ocean Engineering “Semi-Active Magneto-Rheological Damper and Applications in Tension Leg Platform / Semi-Submersible”
2015, Texas A&M University, College Station, Texas, USA.
- ~ M. Eng. in Mechanical Engineering, 2008, Universiti Teknologi Malaysia.
- ~ B. Eng. in Mechanical Engineering, 2003, Universiti Teknologi Malaysia.

Selected recent papers:

1. Amelia S., Leow JS., Hasyim B., Damara Aditramulyadi, D., **Kang HS.**, Yaakob, O., Punurai, W. (2021) Onshore Yard Readiness for Upcoming Oil and Gas Offshore Structure Decommissioning Projects in Indonesia. SPE Symposium: Decommissioning and Abandonment.



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2. Chiong, MC., **Kang, HS.**, Shaharuddin, NMR., Mat, S., QUen, LK., Ten, KH., Ong, MK. (2021). Challenges and Opportunities of Marine Propulsion with Alternative Fuels. *Renewable and Sustainable Energy Review*. Vol. 149. Pp: 111397.
3. Tan, H., Wong, KY., Nyakuma, BB., Kamar, HM., Chong, WT., Wong, SL., **Kang, HS.** (2021). Systematic Study on the Relationship between Particulate matter and Microbial Counts in Hospital Operating Rooms. *Environmental Science and Pollution Research*. Pp 1-12.
4. Ng, CY., Tuhaijan, SNA., Kurian, VJ., Mustaffa, Z., Yazid, E., **Kang, HS.** (2020). Effect of Directional Spreading Angles on the Wave Hydrodynamic Coefficients for Vertical Cylinder. *Ain Shams Engineering Journal*.
5. Goh, PS., **Kang, HS.**, Ismail, AF., Hilal, N. (2021). The Hybridization of Thermally-Driven Desalination Processes: The State-of-the-art and Opportunities. *Journal of Desalination*. Vol. 506. Pp: 11502.
6. Hayytov, S., Tey, WY., **Kang, HS.**, Muhieldeen, MW., Afshar, O. (2021). Comparative Review on Computational Performance of Multistep Schemes in Solving One-Dimensional Linear Wave Equation. *CFD Letters*. Vol. 13 (6). Pp: 1-14.
7. Sukarnoor, NIM., Quen, LK., Abu, A., Kuwano, N., **Kang, HS.**, Desa., SM. (2021). The Effectiveness of Helical Strakes in Suppressing Vortex-Induced Vibration of Tandem Circular Cylinder. *Ain Shams Engineering Journal*.
8. Ma, G., Kamaruddin, MH., **Kang, HS.**, Goh, PS., Kim, MH., Lee, KQ., Ng, CY. (2021). Watertight Integrity of Underwater Robotic Vehicles by Self-Healing Mechanism. *Ain Shams Engineering Journal*. Vol. 12 (2). Pp: 1995-2007.
9. Rahim, NFA., Lee, KQ., Shahriel, NS., **Kang, HS.**, Tey, WY., Lee, KM. (2021). Preliminary Investigation on the Disruption of Microalgae Cell Wall using Vortex Induced Vibration (VIV). *Progress in Energy and Environment* Vol. 15. Pp: 40-46.
10. Fitriadhy, A., Dewa, S., Mansor, NA., Adam, NA., Ng, CY., **Kang, HS.**, (2019). CFD Investigation into Seakeeping Performance of a Training Ship. *CFD Letter*. Vol. 13 (1). Pp: 19-32.

