

CURRICULUM VITAE

1. **NAME:** MD. MASHUD KARIM
2. **Date of Birth:** 5 November 1967
3. **Nationality:** Bangladeshi by birth
4. **Mailing Address:** Dept. of Naval Architecture and Marine Engineering
Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh
Tel: +880 2 9665650/7880
Fax: +880 2 8613046, 9673605
Email: mmkarim@name.buet.ac.bd
5. **Present Position:** Professor
6. **Academic Qualifications:**

Degree/ Examination	Institution (University/College/ School / Department)	Year
Doctor of Engineering	Department of Naval Architecture and Ocean Engineering, Yokohama National University	2001
Master of Engineering	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	1996
B. Sc. Engineering	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	1992
Higher Secondary Certificate	Dhaka. College	1984
Secondary School Certificate	Lalmatia Housing Society Boys' High School	1982

7. **Experiences (start from present):**

Position	Organization	Duration
Head	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	15 Dec. 2009~14 Dec. 2011
Professor	Department of Naval Architecture and Marine Engineering,	2009~till now

	Bangladesh University of Engineering and Technology	
Associate Professor	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	28 Dec. 2004 ~ 2009
Assistant Professor	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	Oct. 1996 - 27 Dec. 2004
Lecturer	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	27 March, 1994-October, 1996
Research Student (Monbusho Scholar)	Hydrodynamics Laboratory, Department of Naval Architecture and Ocean Engineering, Yokohama National University	October 1997-March 2001
Teaching Assistant	Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology	1992-1994

8. Membership/Fellowship of Learned Societies, Professional Institutions and Other Noteworthy Affiliations, etc.:

Student Member	Society of Naval Architects of Japan.	1998~2001
Student Member	Kansai Society of Naval Architects of Japan	1998~2001
Associate Member (12870)	The Society of Naval Architect and Marine Engineers, USA	Since 1998
Member (M/12656)	Institution of Engineers, Bangladesh.	Since 1997
Life Member (LM 87)	National Oceanographic and Maritime Institute	Since 1996
Life Member	Japanese University Alumni Association of Bangladesh	Since 2003

9. **Professional Awards / Honours Received:**

Monbusho Scholarship awarded by the Ministry of Education, Science and Culture, Japan, 1997.

10. **Professional Work at National and International Levels:**

Editor-in-Chief	Journal of Naval Architecture and Marine Engineering
Member, Editorial Board	Journal of Scientific Research
Consultant	Bangladesh Classification Society
Member of Panel of Supervisor	Department of Shipping, Government of People's Republic of Bangladesh

11. **Publication:**

(a) Journal Publications (*recognized and refereed journals/proceedings*):

23) **Karim, M .M.** and Ahmmed, M. S., 2012: Numerical Study of Periodic Cavitating Flow Around NACA0012 Hydrofoil, Accepted for publication in Ocean Engineering, Elsevier.

22) Mostafa, M. N., **Karim, M. M.** and Sarker, M. M. A., 2012: Numerical Study of Unsteady Behaviour of Partial Cavitation on Two Dimensional Hydrofoils, Journal of Shipping and Ocean Engineering, David Publishing, Vol. 2, No.1, pp.10-17. (<http://www.davidpublishing.org>)

21) Hasan, M. K., **Karim, M. M.** and Khan, A. H., 2011: Effect of Hub Taper Angle and Pod-Strut Geometry on the Hydrodynamic Characteristics of Podded Propulsion System, Journal of Ship Technology, Vol. 7, No. 2, pp. 63-74.

18) **Karim, M. M.**, Iqbal, K. S., Khondoker, M. R. H. and Rahman, S. M. H. , 2011: Influence of Falling Height on the Behavior of Skid-Launching Free-Fall Lifeboat in Regular Waves, [Journal of Applied Fluid Mechanics](#), Vol. 4, No. 1, Issue 1, pp 77-88. (<http://www.jafmonline.net/>)

20) **Karim, M. M.**, 2010: A Micro-Genetic Algorithm Based Optimization of Marine Propeller for Podded Propulsion System, Journal of Ocean and Ship Technology, Vol. 1, No. 1. (http://www.narosa.com/jrnl_0610.asp)

19) **Karim, M. M.**, Iqbal, K. S., Khondoker, M. R. H. and Rahman, S. M. H. , 2009: Numerical Investigation into the Effect of Launch Skid Angle on the Behaviour of Free-Fall Lifeboat in Regular Waves, International Journal of Small Craft Technology, The Transaction of The Royal Institute of Naval Architects (RINA), UK, Vol 151, Part B1.

17) **Karim, M. M.**, Rahman, M. M., and Alim, M. A., 2009: Computation of Turbulent Viscous Flow around Submarine Hull Using Unstructured Grid, Journal of Ship Technology, Institute of Naval Architects, India. (<http://www.jstindia.org>), ISSN: 0973-1423.

16) **Karim, M. M.**, Rahman, M. M., and Alim, M. A., 2009: Computation of Axisymmetric Turbulent Viscous Flow Around Sphere, Journal of Scientific Research, Vol. 1, No. 2, pp 209-219. (<http://www.banglajol.info/index.php/JSR>), ISSN: 2070-0237(Print); ISSN 2070-0245 (Online).

- 15) **Karim, M. M.**, Rahman, M. M., and Alim, M. A., 2008: Numerical Computation of Viscous Drag for Axisymmetric Underwater Vehicles, *Jurnal Mekanikal*, Faculty of Mechanical Engineering, UTM, Malaysia, No. 26, pp. 9-21. ISSN: 0127-3396. (also available on <https://www.fkm.utm.my/~mekanika/journal.html>)
- 14) **Karim, M. M.**, Ali, M. A. and Iqbal, K. S., 2008: Influence of Curve Fitting Techniques on Hydrostatic Characteristics of Ship, *Journal of Mechanical Engineering*, Transaction of the Mechanical Engineering Division, The Institution of Engineers, Bangladesh, Vol. 39, No.2, pp. 100-112, ISSN: 0379-4318. (available on <http://www.banglajol.info/index.php/JME>)
- 13) Iqbal, K. S., Bulian, G., Hasegawa, K., **Karim, M. M.** and Awal, Z. I.: 2008: A Rational Analysis of Intact Stability Hazards Involving Small Inland Passenger Ferries in Bangladesh, *Journal of Marine Science and Technology*, Springer, Vol. 13, No. 3, pp. 270-281, 0948-4280 (Print); 1437-8213 (Online), doi:10.1007/s00773-008-0016-3.
- 12) Iqbal, K. S., Bulian, G., Hasegawa, K., **Karim, M. M.** and Awal, Z. I., 2008: Possible Remedies for Intact Stability Hazards Involving Contemporary Small Inland Passenger Ferries in Bangladesh, *Journal of Marine Science and Technology*, Springer, Vol.13, No. 3, pp. 282-290, 0948-4280 (Print); 1437-8213 (Online), doi:10.1007/s00773-008-0023-4.
- 11) Alim, M. A., Rahman, M. M. and **Karim, M. M.**, 2008: Separation Points of Magneto-hydrodynamic Boundary Layer Flow along a Vertical Plate with Exponentially Decreasing Free Stream Velocity, *Journal of Naval Architecture and Marine Engineering*, Bangladesh, Vol. 4, No.1, pp. 11-18, ISSN: 1813-8535 (Print), ISSN 2070-8998 (Online) (<http://www.banglajol.info/index.php/JNAME>).
- 10) Rahman, M. M., **Karim, M. M.** and Alim, M. A., 2007: Numerical Investigation of Unsteady Flow Past a Circular Cylinder Using 2-D Finite Volume Method, *Journal of Naval Architecture and Marine Engineering*, Bangladesh, Vol. 4, No.1, pp. 27-42, ISSN 1813-8535 (Print), ISSN 2070-8998 (Online), (<http://www.banglajol.info/index.php/JNAME>).
- 9) **Karim, M. M.**, Khan, A. H. and Hasan, M. M. 2006: A Study of Surface Panel Method for the Analysis of Marine Propeller in Steady Flow, *Journal of the Institution of Engineers*, Bangladesh, Mechanical Engineering Division, Vol. ME 35, pp. 42-54, ISSN: 0379-4318.
- 8) **Karim, M. M.**, Suzuki, K., and Kai, H., 2004: Optimal Design of Hydrofoil and Marine Propeller Using Micro-Genetic Algorithm (μ GA), *Journal of Naval Architecture and Marine Engineering*, Vol. 1, No. 1, pp.47-61, ISSN 1813-8535 (Print), ISSN 2070-8998 (Online), (<http://ejname.webs.com>)
- 7) **Karim, M. M.** 2002: A Study of Surface Panel Method for Analysis of Hydrofoils, *Journal of the Institution of Engineers*, Bangladesh, Mechanical Engineering Division, Vol. ME 31, pp. 1-13, ISSN: 0379-4318.
- 6) **Karim, M. M.** 2001: Application of Micro-Genetic Algorithm (μ GA) to the Optimal Design of Non-cavitating Hydrofoil, *Journal of the Institution of Engineers*, Bangladesh, Mechanical Engineering Division, Vol.29, No. I & II, pp.66-76, ISSN: 0379-4318.
- 5) **Karim, M. M.**, Ikehata, M., Suzuki, K. and Kai, H., 2001: Application of Micro-Genetic Algorithm (μ GA) to the Optimal Design of Lifting Bodies, *Journal of the Kansai Society of Naval Architects*, Japan, No.235, March 2001, pp. 1-8.

- 4) **Karim, M. M.**, Ikehata, M., 2000: Application of Genetic Algorithm to the Optimization of Hydrofoil Using Polynomial Expression of Boundary Element Analysis Results, Journal of the Kansai Society of Naval Architects, Japan, No. 233, pp. 1-9.
- 3) **Karim, M. M.** and Khalil, G. M., 1997: Hydrodynamic Damping of the Heaving Motion of an Elliptically Shaped Ship Model, Journal of the Institution of Engineers, Bangladesh, Mechanical Engineering Division, Vol. ME25-26, No. 1, pp. 35-43, ISSN: 0379-4318.
- 2) Khalil, G. M. and **Karim, M. M.**, 1997: A Study of Damping Forces Acting on Circular Plates Oscillating in Still Water, Journal of the Institution of Engineers, Malaysia, Vol. 58, No. 2, pp. 13-19.
- 1) Khondoker, M. R. H and **Karim M. M.**, 1997: Investigation of the Influence of the Effects of Launch Rail Length on the Motion Characteristics of a Free-fall Lifeboat, Journal of the Institution of Engineers, Bangladesh, Mechanical Engineering Division, Vol. ME25-26, No. 1, pp. 9-20, ISSN: 0379-4318.

(b). Conferences (national and international conferences and seminars):

(i) Proceedings

- 13) **Karim, M. M.**, Rahman, M. M., Alim, M. A., 2011: [Comparative study between flows around sphere and pod using finite volume method](#), Journal of Naval Architecture and Marine Engineering, Bangladesh, Vol. 8, No.1, pp. 49-58.
- 12) **Karim, M. M.**, Mostafa, N. and Sarker, M. M. A., 2009: Numerical Prediction of Unsteady Cavitating Flow around a Hydrofoil, 16th Mathematics Conference of Bangladesh Mathematical Society, 17 - 19 December.
- 11) Hasan, M. K., **Karim, M. M.** and Khan, M. A. H., 2009: Effects of Hub Taper Angle and Pod-Strut Geometry on Hydrodynamic Characteristics of Podded Propulsors, 16th Mathematics Conference of Bangladesh Mathematical Society, 17 - 19 December,
- 10) Iqbal, K. S., Hasegawa, K., Bulian, G., **Karim, M. M.**, and Awal, Z. I., 2007: Passenger Ferry Accidents in Bangladesh: Design and Socio-economic Aspects, Proceedings of the 10th International Symposium on Practical Design of Ships and Other Floating Structures, Houston, Texas, USA.
- 9) **Karim, M. M.** and Ali, M. A., 2006: Comparative Study of Curve Fitting Techniques for Fairing of Ship Lines, 11th Annual Paper Meet, Mechanical Engineering Division, The Institute of Engineers, Bangladesh held at Dhaka.
- 8) Ghassemi, H., **Karim, M. M.** and Ikehata, M., 2000: Non-linear Method Applied to Partially Cavitating Three Dimensional Hydrofoils, Proceedings of the fourth [International Conference of Hydrodynamics \(ICHHD2000\), Yokohama, Japan](#), 7-9 September.
- 7) **Karim, M. M.** and Ikehata, M., 2000: A Genetic Algorithm (GA) Based Optimization Technique for the Design of Marine Propeller, Propeller/Shafting 2000 symposium organized by SNAME, held at Virginia Beach, USA, 20-21 September.
- 6) **Karim, M. M.** and Khondoker, M. R. H., 2000: A Study of Surface Panel Method for the Hydrodynamic Analysis of Lifting Body, Proceedings of the Annual Paper Meet and

International Conference, Mechanical Engineering Division, The Institution of Engineers, held at Dhaka, Bangladesh.

5) **Karim, M. M.** and Khalil, G. M., 1997: Effect of Spring Constant on the Damping of Oscillating Circular Cylinder, Proceedings of the Third Annual Paper Meet, Mechanical Engineering Division, The Institution of Engineers, held at Chittagong, Bangladesh.

4) Khalil, G. M. and **Karim, M. M.**, 1997: An Experimental Investigation into the Hydrodynamic Damping Forces Acting on Bodies Heaving in Water, Proceedings of the Conference on Ship and Ocean Technology (SHOT-97), held at IIT, Kharagpur, India.

3) Khalil, G. M. and **Karim, M. M.**, 1995: A Study of the Hydrodynamic Damping Forces Acting on Oscillating Circular Plates, Proceedings of the Second Annual Paper Meet, Mechanical Engineering Division, The Institution of Engineers, held at Rajshahi, Bangladesh.

2) **Karim, M. M.** and Rahim, A., 1994: Extent of Trim Correction on the Stability of Inland Passenger Vessel, Proceedings of the First Annual Paper Meet, Mechanical Engineering Division, The Institution of Engineers, held at Khulna, Bangladesh.

(ii) Presentations

1) **Karim, M. M.** and Ikehata, M., 2000: A Study on Genetic Algorithms and Their Applications to Propeller Design, Presented at the 2nd Intl. Japan-Korea Symposium on Advanced Engineering and Science, Yokohama, Japan, 30 Nov.-1 Dec.