SYED AMINUL HOSSAIN

Chief Engineer

PROFESSIONAL SUMMARY

I am a Chief Engineer in Maersk Line or Maersk SeaLand (world's largest container shipping company) with highly developed skills in engineering design and analysis as well as tools and equipment management. I have demonstrated excellent complex chemical and mechanical engineering skills with over 14 years of experience in machinery and equipment, including propulsion engines, generators, boilers and safety equipment. I actively contributed to sustainability research practices by Maersk Line that thus far tested algae biofuel in ship engines and reduced carbon emissions by 40%. I offer my expertise to the R&D sector that focuses on various aspects of internal combustion engines, particularly in functionalizing eco-friendly low-carbon fuels that can contribute as one piece in the puzzle to solve the ongoing climate crisis.

RESEARCH CONTRIBUTIONS/ACHIEVEMENTS

I directly contributed to a number of academic research projects that developed emulsion-type diesel fuels to enhance the combustion efficiency of internal combustion engines, eventually reducing exhaust carbon emissions. These projects required extensive complex design and engineering knowledge of combustion engines. Based on my practical experience, I contributed to investigating several engine efficiency factors, including brake-specific fuel consumption, brake thermal efficiency, exhaust mass flow rate and exhaust gas temperatures. Through these projects, I also collaborated with environmental researchers to determine the effect of emulsion-type diesel fuels on engine emission gas concentrations such as carbon dioxide, carbon monoxide, ammonia and nitrogen oxides.

As an accomplishment, I received a recommendation letter from the lead scientist of the abovementioned projects who currently works at the University of Queensland. The letter highlights my intellectual contributions to the **complex design and engineering** of internal combustion engines. Significant outcomes from these projects were later published in reputed journals such as:

- Journal of the Energy Institute 2016, 89 (3), 354-365.
  DOI: https://doi.org/10.1016/j.joei.2015.03.004
- Biofuels 2016, 7 (4), 337-343.
  DOI: https://doi.org/10.1080/17597269.2015.1135374
- Influence Energy & Fuels 2014, 28 (6), 4149-4161.
  DOI: https://doi.org/10.1021/ef5002259
- Journal of Dispersion Science and Technology 2014, 35 (2), 185-192.
  DOI: https://doi.org/10.1080/01932691.2013.780241

CONTACT

Address Chittagong, Bangladesh
Phone +8801792127025
Email aminul_mariner@yahoo.com

WEBSITE, PROFILES

- www.linkedin.com/in/syed-aminul-hossain-95562ba2/
- www.marinoft.com

SKILLS

- Regulatory standards
- Technical drawings
- Troubleshooting and testing
- SolidWorks, AutoCAD and Fusion 360 operation
- MS Word, Excel, PowerPoint, Excel VBA programming and Pivot Table
- Programming with C# visual studio
- Advanced backend development in PHP-Laravel
- Adobe Illustrator, Photoshop and PageMaker command
- Video editing: OpenShot and Filmora

INTERPERSONAL SKILL

- Team Leadership
- Cross-culture communication
- Meeting Management
- Motivation and Conflict Management
- Stress Management
- Shipboard personnel management and training
- Task and workload management
- Effective resource management and decision-making techniques
- Excellent communication skill
- Knowledge of technical analysis
- Knowledge of safety and security valuation
- Enthusiastic about sustainability practice

WORK HISTORY

Chief Engineer, **11/2009 to Current**

Maersk Line

Maersk Line, based in Denmark, is the largest container shipping line and vessel operator in the world, with subsidiaries and offices across 130 countries and around 83,000 employees worldwide in 2020. Maersk Line values sustainability and cooperates with the US Navy on testing algae biofuel, reducing ship engine carbon emissions by 40%. The company set a goal to be carbon neutral by 2050 and targeted using biofuels to power its fleet, eventually reducing around 35.5 million tons of carbon dioxide emissions by using.

In Australia, Maersk Australia Pty Ltd is one of the leading shipping companies involved in arranging the transportation of freight and cargo across the globe. Rockhampton-based company Queensland Magnesia associates with Maersk's ECO Delivery product to reduce carbon footprint.

The Key Accountabilities:

- Head of the technical department
- Controlling, supervising, and delegating maintenance and repair of all machinery and equipment, including main propulsion engine, generators, boilers and safety equipment
- Monitoring the budgets allocated to the vessel and working with the superintendent in proposing next budget
- Bunkering fuel and minimizing fuel consumption hence contribute to environmental compliance
- Establishing procedures for corrective and preventive maintenance
- Optimizing performance of facility machinery through calibration and repairs
- Analyzing technical requirements to determine system design, potential issues and related costs for each project request
- Checking complex engineering computations quickly and accurately
- Presenting drawings to project managers and incorporating recommended changes
- Creating a website to connect all the seafarers in the world
- Contributing to Maersk Line sustainability practices

EDUCATION

Certificate of Competency – Cert No: 2.EC1.000047, **Chief Engineer**, 02/2019
Unlimited Ship's Engine Power, Department of Ship, Dhaka, Bangladesh

Bachelor of Maritime Science, **Marine Science**, 2009
Bangladesh Marine Academy – Chittagong, National University, Bangladesh

Higher Secondary Certificate, **Science**, 2005
Govt. Haji Muhammad Mohsin College, Chittagong, Bangladesh

Secondary School Certificate, **Science**, 2003
Bakalia Govt. (Lab) High School, Chittagong, Bangladesh

REFERENCES

Aniket Mujumdar
Chief Engineer
Phone: +91 98200 54326
Email: annikkett@yahoo.co.in
A.P. Moller – Maersk
Esplanaden 50, 1263 Copenhagen, Denmark

Ganesan Thanendran
Senior Crew Operator
Fleet Management & Technology
Phone: +45 31147267
Email: MLFMTCRWCPH@maersk.com
A.P. Moller – Maersk
Esplanaden 50, 1263 Copenhagen, Denmark