

Isaac Mark Joseph

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PROFILE

A competent engineer with comprehensive knowledge in Aerodynamics, numerical analysis & wind turbine technology. Proven strengths in fluid flow analysis, software development & Mechanical component design. Offering experience in providing engineering solutions to non-standard wind turbine products and improvement option.

What I'm looking for. Is this you?

- Direct Research & development involvement.
- Company with positive ethical stance.
- Time and opportunity to learn and apply emerging technologies.

WORK EXPERIENCE

Loads Engineer 08/2018 – present
Vestas Technology R&D Chennai Pvt Ltd, Chennai, Tamil Nadu, India

- Perform reliability tests of non-standard products and liaise with certification bodies to acquire approvals.
- Execute site specific turbine load simulations, provide re-tuning and other improvement options.
- Exposure in documenting and presenting technical data to internal and external stakeholders.
- Contribute to the evolution of load analysis tools and methodologies.

Project Engineer 11/2017 – 02/2018
B.M.S College of Engineering, Bangalore, India

- Supervised and assisted final year student projects
- Numerically validated drag reduction techniques in cylindrical bluff bodies and verified the same using experimental results.

Freelance CFD Analyst 08/2016 – present
Chennai, India

- Assist several final year Engineering projects.
- Perform aerodynamic evaluations on vehicular structures.
- Numerically validated drag-reduction techniques of bluff bodies.

Research Intern 07/2015 – 04/2016
A*STAR - IHPC, Singapore

- Conducted study on the effects of flow induced vibration of scaled offshore rigs and numerically analysed the force-coefficients using *OpenFOAM*.
- Numerically validated the effects of Vortex Induced Vibration on cylindrical structures and high Reynolds numbers flows.
- Liaised with the Fluid-structure department to

WORK EXPERIENCE

study the effects of sea currents on Offshore Structures.

EDUCATION

M.Sc - Aerospace Engineering 08/2013 – 07/2016
Nanyang Technological University, Singapore

BE - Mechanical Engineering 08/2008 – 04/2012
Anna University, Chennai, India

SKILLS

Languages

English 
Tamil 
French 

Skills

Numerical Analysis/CFD 
MATHWORKS 
Design/Software 
Report/Documentation 

HOBBIES



Guitarist



Football



Blogger



Travel

WEB

CFD Projects: <https://mycfdarchive.blogspot.com/>

Research Data:

<https://www.mendeley.com/profiles/isaac-mark-joseph-manasseh2/>