

FIRST LAST

Email99@gmail.com / +1111111111 / City, Country

EDUCATION

Masters University

Jul 16 – Jul 18

Master of Science (Mechanical Engineering)

Dissertation Title: Sea resonance (during ship-to-ship berthing) using CFD.

Supervisor: Professor 1

Synopsis: Investigation of resonance at ship-to-ship gap during in-head waves. Parallel numerical simulation was used to model wave free-surface at every time step. Results indicate direct correlation between gap distance and wave elevation

Undergraduate University

Sep 11 – Jun 13

Bachelor of Engineering (Mechanical Design Engineering), 2nd Upper Class Honors

RESEARCH EXPERIENCE

Polytechnic School

Apr 14 – Oct 15

Research Engineer

City, Country

Research Topic: Solar Photovoltaic/Thermal (PV/T) Collector (funded by government).

Principal Investigators: PI 1, PI 2

- Designed and tested 3 Photovoltaic/Thermal (PV/T) collector prototypes for thermal efficiencies under tropical environment.
- Communicated and managed external contractors in fabricating and providing project materials.
- Collected data on solar irradiance and collected temperature recordings (on absorber plate) for analysis.
- Conducted research experiments for improved thermal radiation absorption.
- Attended and presented research works during monthly R&D forums.
- Guided students in their final year projects for 2 terms.

PUBLICATION

Co-authored conference paper here

WORK EXPERIENCE

Company1 Pte Ltd

Feb 19 – May 19

Engineer

City, Country

- Using AutoCAD, NASTRAN (FEMAP) and Solidworks to create drawing for ship hatch covers and ramps.

Startup

Sep 18 – Feb 19

Freelance

City, Country

- Provide know-how on solar panel frame manufacturing and design if required by start-up.

Solar Manufacturer Pte Ltd

Jan 16 – Jul 18

New Product Development/Technology Engineer

City, Country

- Managed projects by tracking project schedules, strategies, costings and team's deadlines (~10 cross-functional members):
 - Successfully transfer new solar panel product (full black panel) from R&D to mass production.
 - Managed smaller scale OEM project for smaller panels.
- Team member in 2 major new product projects.
- Communicated with EMEA sales team on customer-product related issues (panel installation, mounting structure compatibility, etc.).
- Provided 3D design and strength analysis (FEA and mechanical load testing) for R&D initiatives.
- Led and attended technical meetings for the following: 1) testing setups, 2) RCA & FMEA, 3) R&D sharings and discussions.
- Managed organization's Solidworks CAD database (Tolerance check, BOM, revision, release).

Company2 Ltd

Aug 13 - Jan 14

R&D Engineer

Singapore, Singapore

- Coordinated lab setup based on specific project requirements.
- Assisted in formulating and casting of novel magnesium alloy.

ADDITIONAL ACTIVITIES

Class Representative

2011 - 2012

Student's Representative Council, Undergraduate University

SKILLS

C++/Python, High Performance Computing, CFD (OpenFOAM, Solidworks, ANSYS), FEA (Solidworks, NASTRAN), Report Writing, MS Office, CAD (AutoCAD, Solidworks), R&D, Project Management, English (Fluent), Chinese (Fluent)

INTEREST

Research, Technology, Computational engineering, Traveling, Learning new cultures, Reading