

JESHUA LIN

Undergraduate in Renaissance Engineering Programme

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EDUCATION

B.Eng. (Hons) in Aerospace Engineering (REP),

MSc. in Technology Management

Nanyang Technological University

 August 2017 - December 2021 (ongoing)

 Singapore

Imperial College London (exchange)

 October 2019 - May 2020

 United Kingdom

- The Renaissance Engineering Programme (REP) is a 4½ year dual-degree programme in engineering and business.
- cGPA as of AY20/21S2: 4.85/5

EXPERIENCE

Fluid Dynamics Intern

Dyson (Research, Design and Development - Fluid Dynamics)

 May 2020 - July 2020

 Singapore

- Created Python and Lisp scripts to complement the team's existing Fluent CFD workflow (meshing, setup, solving, and postprocessing)
- Produced potential time savings of over 50 man-hours per design optimization study through automation.

Research Intern

Institut für Energietechnik, Hochschule für Technik Rapperswil

 July 2019 - September 2019

 Switzerland

- Developed computer-aided geometry optimization workflows for the lift generating component of an airborne wind turbine in collaboration with an industrial partner.
- Handled various flow simulation software packages (ANSYS Fluent, STAR-CCM+, MSES).

Armoured Infantry Vehicle Commander

Singapore Armed Forces

 December 2014 - December 2016

 Singapore

- Exercised command over a section of 8 soldiers and an armoured personnel carrier in the field, as well as taking responsibility for their welfare within the barracks.
- Managed the administrative matters of a company of over a hundred soldiers, working closely with higher command to keep the combat team running smoothly.

High School Intern

Infocomm Development Authority of Singapore

 July 2012 - August 2012

 Singapore

- Conducted a nationwide feasibility study into online education initiatives as part of a group internship project over 4 weeks.

ACTIVE PROJECTS

Non-invasive condition monitoring of aircraft gearboxes

Renaissance Capstone Project (FYP)

Machine Learning

Signal Processing

Data Science Specialization with John Hopkins University


Massive Open Online Course (Coursera)

Data Science

Machine Learning

R

Passion projects

 yakboard

 dailytelegram

 zhngbot

 Advent of Code 2020

AWARDS



Shopee Product & Design Challenge
First Runners-up (2021)



Shell Imagine the Future Scenarios Competition

National Champions, Regional Runners-up (2018/19)



National Olympiad of Informatics
Bronze Medallist (2011)



S'pore Games Creation Competition
Best Technical Achievement (2011)

SKILLS



Programming

Python, Javascript, React



Graphic Design

Figma, Inkscape, GIMP, Blender



CAD/CAE

ANSYS Fluent, STAR-CCM+, Siemens NX, SolidWorks, OnShape