# VUONG MINH QUAN

Mobile: 8464 3969 Email: minhquan.vuong_25@u.nus.edu

LinkedIn profile: https://www.linkedin.com/in/minh-quan-vuong-401379158/

## EDUCATION

**Pursuing NUS FinTech SG Programme** **Aug 20 – Oct 20**

- Exposed to the workings and drawbacks of conventional, traditional financial institutions.
- Trained in basic web and server development including: Html, CSS, JavaScript, NodeJS; databases: mySQL, MongoDB; and frameworks: React, Express.
- Introduced to advance methodologies and technologies: APIs, RPA, DevOps, Blockchain, and Algo-trading.

**National University of Singapore, Singapore** **Aug 16 – Jun 20**

- Bachelor of Engineering: major in Mechanical Engineering, minor in Management of Technology.
- Graduates in June 2020 with Honors Degree.
- Relevant Coursework: engineering modelling, manufacturing processes, systems thinking & engineering, technology management strategy, entrepreneurial strategy, basic accounting.

## WORK EXPERIENCE

**Engineer Intern, Keppel FELS** **Jan 19 – Jun 19**

- Created a new equipment list format for keeping track of mechanical items' quantity and weight to accurately record equipment for weight control.
- Calculated tank heating requirement for designated liquid holding tanks onboard project vessel to determine the required energy to maintain tank temperature at above 5°C.
- Performed calculation for ballast pumps NSPH onboard project vessel to ensure proper pump function onboard during operation at angle of 15° and 25°.
- Simplified the pipelines drawings of different marine systems on the oil rig including potable water system, seawater system, and fresh water system.
- Developed a test memo for trolley beams and pad eyes to test their functionality and weight capacity.

## RESEARCH EXPERIENCE

**Final Year Project (FYP)** **Aug 19 – Apr 20**

- Project title: Computational modeling of heterogeneous materials (Supervisor: Prof. Vincent Tan).
- Utilized ABAQUS Software for modeling and performing stress/strain tests on created models.
- Applied Finite Element Analysis on heterogeneous models for testing the strength and flexibility of such materials.
- Successfully designed and obtained less than 1% difference of mechanical properties between the model tests of 1-unit cell and 100-unit cells.

**Undergraduate Research Opportunities Program (UROP)** **May 18 – Aug 18**

- Project title: Robotic polishing of 3D printed internal surfaces based on magnetic abrasive finishing (Supervisor: Prof. Wang Hao).

- Operated and programmed the 6-axis Han's Motor Elfin robot with a spindle attached to cylindrical magnets to perform the internal magnetic abrasive polishing of straight tube.
- Designed a new fixture to attach a low-speed DC motor with magnets to the robot to ensure constant rotational motion and better surface finishing.
- Successfully applied internal polishing method to 100mm straight metal tube and achieved 54% improvement on surface roughness.

## CO-CURRICULAR ACTIVITIES

**Collaborator, International Education Expo 2017 (Hanoi, Vietnam)** **Jul 17**

- Coordinated and aided the representative of EASB East Asia Institute of Management in managing a booth at the event to promote the school.
- Interacted and supported the institution delegate in translating the information in English and creating a comfortable, connective environment between her and the students.
- Summarized and presented the school system of education, benefits and overseas college partnerships of EASB Institute in Singapore to over 15 young adolescents in the expo.

## ADDITIONAL INFORMATION

- Basic knowledge in business law, accounting, and financial statements.
- Fluent in English, Vietnamese (both spoken and written).
- My GitHub link: https://github.com/Mynameisanalias.