

Adam Bin Muhammad

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Education

September 2015 – June 2019
The University of Sheffield

MEng Mechanical Engineering
Second Class Honours First Division

Studying Mechanical Engineering helped develop a broad range of skills including team working, presenting, communicating and critical problem solving. Successful completion of the 3rd Year Group Project 'Level Crossings' displayed written skills, presentation skills and time management to complete the task in time. A conclusion to the Final Year Project 'Modelling Stresses in Tram Rail' demonstrated critical problem solving that was required to solve engineering problems and successfully complete the thesis.

October 2010 – June 2015
Kolej Tuanku Ja'afar

3 A Levels at Grade A-B in
Mathematics, Further Mathematics and
Physics (UCAS Tariff = 136 points)

8 GCSE's at Grade A-C including
Mathematics, Physics and English

Skills

- Excellent in Matlab, Solidworks, Ansys Workbench and Mechanical APDL
- Proficient in Microsoft Office usage
- Fluent in English, Native in Malay, Basic in Mandarin, French and Spanish

Engineering Projects

September 2018 – May 2019: Individual Project - Modelling stress in tram rails

- Outlined the stresses and cracks occurring in the rail-wheel contact of tram train
- Created a weekly schedule to keep the progression of the project
- Completed a report consisting of the aim, objectives and outcome of the project
- Used Beasy software to compute the mechanical stresses and SIF in the rail
- Presented the data collected and computed results to senior academic staffs

February 2018 – May 2018: Group Project - Level Crossings

- Analysed the frequency of incidents occurring in vehicle and pedestrian crossings
- Appointed as group leader for the duration of the project
- Provided initial sketches in comparison with other sketches for decision matrix
- Research and applied light systems to the final design and solution
- Presented solutions of the project to assessors, including industry representative

February 2017: Engineering You're Hired – Deconstruction Robot

- Provided solutions to solve structural aspects of construction beams using robots
- Appointed as group leader for a day during the one week project period
- Awarded for best presentation by assessors, including industry representative

February 2016: Global Engineering Challenge – Food Preservation

- Contributed a solution to apply sustainability to preserve wheats and grains
- Appointed as group leader for a day during the one week project period
- Presented final solution with team members to assessors

Experience

May 2017 – March 2018: Sheffield Malaysian Night 2018

Technical Team Member

- Organized and set up weekly meetings with every technical team members
- Controlled technical systems for supporting the acting and dancing performances
- Orchestrated the backdrops and audio systems during the performance

August 2014 – February 2015: International Understanding (IU) Day - Canada

Club Service Director, Interact Club Kolej Tuanku Ja'afar

- Organized a bazaar to promote the theme of the country before the event
- Orchestrated the games and activities for several weeks to raise funds for charity

July 2014: MMC Oil and Gas Engineering

Student Apprentice

- Interned with the Mechanical Engineer Department for a one week period
- Analysed the properties of pipe systems that was assigned by a senior engineer
- Presented a summary of the gas flow in the structural pipe to senior consultants

Interests

- Attained ABRSM Grade 5 in Music Theory, Grade 4 in Piano
- Attained Junior Black Belt Level in Taekwondo
- Represented Kolej Tuanku Ja'afar school team for Rugby and Football

Reference

Dr David Fletcher

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