

## TEH KAI REN

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### PROFILE

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A hardworking Mechanical Engineering graduate who is keen to develop acquired engineering knowledge and skill with OCK Group Berhad. An individual who is passionate about engineering and hopes to be an innovative leader in the profession in the future. A fast-learner with good analytical skills who is eager to learn not only about the theoretical aspects but also the practical aspects of the engineering profession.

### EDUCATION

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- 2014-2016**                      **University of Birmingham** (3<sup>rd</sup> and 4<sup>th</sup> Year of Degree)  
Classification: Master of Engineering with Honours, Class II (Division I)  
(Mechanical Engineering).  
Course Modules:
- Final Year Project: The Nature of Inflation
    - The main objective of this research was to find a new, alternative way to predict the inflation rate in the United Kingdom.
  - Year 4 (Average of 63.67%): Advanced Vehicle Engineering, Advanced Thermal System, Advanced Mechanics, Biofuels and Combustion, Synoptic Mechanical Engineering.
  - Year 3 (Average of 64.33%): Design and Professional Skills (MEng), Sustainable Energy and Environment, Computational Fluid Dynamics and Finite Element Analysis, Mechanical Design B, Engineering Mathematics A+B, Control Engineering, Powertrain and Vehicle Engineering, Turbomachinery and Compressible Flows.
- 2012-2014**                      **Taylor's University Lakeside Campus** (1<sup>st</sup> and 2<sup>nd</sup> Year of Degree)  
Course Modules:
- Year 2 (GPA of 3.23): Computer Aided Engineering & Geometric Modelling, Computing Applications for Engineers, Engineering Mathematics 3 & 4, Multidisciplinary Engineering Design, Engineering Design & Innovation, Properties and Applications of Materials, Engineering Solid Mechanics, Managing Projects for Success, Manufacturing Engineering.
  - Year 1 (GPA of 3.10): Engineering Design and Communication, Engineering Design and Ergonomics, Engineering Fluid Mechanics, Thermodynamics & Heat Transfer, Engineering Mathematics 1 & 2, Engineering Statics, Engineering Dynamics.
- 2011-2012**                      **Taylor's College Subang Jaya**  
**Cambridge A-Level**
- Grade: Advanced Level: 3B 1C  
Advanced Subsidiary: 4A 1B  
Course Modules:
  - Physics, Chemistry, Mathematics, Economics, Thinking Skills
- 2010**                                **SMK Tengku Ampuan Rahimah Klang (STAR)**  
**Sijil Pelajaran Malaysia (SPM)**  
Grade: 6A+ 3A 1A-

## AWARDS AND ACHIEVEMENTS

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- 2014-2016:** Recipient of the Taylor's University – University of Birmingham collaboration Scholarship for achieving a CGPA of 3.17.
- 2014:** Recipient of the Best Design and Innovation award: Second runner-up in the Taylor's University Engineering Fair for innovating a prototype of head-up display (HUD) in cars.
- 2011:** Recipient of the Tan Sri Dato' (Dr) Loy Hean Heong Merit Scholarship 2011 awarded by Taylor's College for obtaining 10As in the SPM examinations.
- 2010:** Obtained Secondary Level Merit in The National Physics Competition held by Malaysian Institute of Physics.

## WORK EXPERIENCE

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- 2015**                      **Part-time waiter and bartender**  
Developed organizational and time management skills by balancing time between studies and part-time job. Oral skills, especially in the English language, were enhanced due to the need to attend to and to converse with customers of English-speaking background.

## ACTIVITIES AND INTERESTS

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### Coniston Team Building:

- 2014:** A three-day, two-night team building camp which challenged the intellect and creativity required of an engineer. All activities conducted were in relation to Physics and this compelled participants to apply such theoretical knowledge into practice. An example would be to build a catapult from limited resources. Skills such as teamwork, communication skills and critical thinking skills were significantly enhanced after this experience.

### Taylor's University Engineering Fair:

- 2014:** A compulsory event held every semester for all engineering students to present their ideas and work in a group of five which are worth being invested on. Ideas and prototype were presented to honourable guests from various multinational companies who acted as judges for the competition.  
Produced a prototype of head-up display (HUD) in cars for the event. Achieved second runner-up after impressing the judges with the aforementioned idea and prototype. Skills enhanced were time management, teamwork, communication skills, analytical skills, innovation skills and critical thinking.

### Master Jaya Factory Visit

- 2013:** A one-day tour in the Master Jaya factory where a brief introduction and working principles about Air Pollution Control & Industrial Ventilation were given. A tour around the factory was also conducted whereby students were allowed to observe the operation of machines.

### Volunteering:

- 2013:** Volunteered with PERTIWI Soup Kitchen to help distribute food to the homeless around Kuala Lumpur.
- 2008:** Participated in Raptor Watch, an eco-tourism event, as a volunteer to raise awareness on the conservation of raptors and their habitats.  
Developed various skills such as leadership, time management, communication, teamwork and adaptability by working and coordinating with people from different cultural and economic backgrounds.

**Persekutuan Pengakap Malaysia:**

**2009-2010:** Secretary and Patrol Leader

**2008:** Committee

**2007:** Secretary

**2006:** Selected as a district representative for “Pertandingan Kemahiran Pengakap Muda”, a state-level competition. Analytical skills, teamwork, communication skills and independence were essential in this gruelling eight-day, seven-night competition as only limited aid was given. Activities include building a shelter from surrounding resources, scouring for food and navigating with a compass.

**Majlis Ketua Tingkatan:**

**2008:** Committee

**2007:** President

**2006:** Vice-President

A society that is composed of all class presidents and assistant class presidents which was aimed at improving the disciplinary levels of students in class.

Developed skills such as leadership, time management and responsibility by performing all duties and responsibilities as a class president. Communication skills were also enhanced due to constant liaison with teachers and students.

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**SKILLS****Computer Literacy:**

- Microsoft Excel: Possess basic knowledge for data tabulation.
- Microsoft Project: Learned its use for the creation of Gantt charts for various projects.
- Microsoft PowerPoint: Possess basic knowledge for data presentation.
- Solidwork: Possess intermediate level of knowledge. Have used it for various individual and group projects such as designing gear boxes.
- Matlab: Possess basic skills
- ANSYS: Possess basic skills (learnt in third year of university for Computational Fluid Dynamics).
- ABAQUS: Possess basic skills (learnt in third year of university for Finite Element Analysis).

**Language:**

- Multilingual: Able to speak and write in English and Bahasa Malaysia, and speak basic Mandarin.