# Overview

Graduate of Mechatronics Engineering with honours from Monash University, with a strong passion for sustainable engineering, social and community welfare and leading technology. Eager to seek new challenges and not afraid to explore, with a proactive mind set, strong work ethic, effective communication skills and multilingual capabilities.

# Education

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| **Bachelor of Mechatronics Engineering (Honours)**  Monash University | **Feb 2013 – Dec 2016** |
| First Class Honours with distinction average (CGPA: 3.469; WAM: 77.96%) | |
| **Monash University Foundation Year (MUFY)**  Sunway University College | **Jan – Dec 2012** |
| Highest overall score for class of 2012 (376/400), subject awards for Physics and Advanced Mathematics, qualified for Monash University Entrance Scholarship | |

# Work Experience

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| **Sushi Artisan, Sushi Sushi** | **Apr 2017 - Present** |
| **Responsibilities:** Customer service, store upkeep and cleaning, and kitchen duties  **Outcomes:**   * Provided satisfactory service to customers, at times in a high-pressure environment * Single-handedly manned the hand roll-making station, with an average output of 100 rolls per hour | |
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| **Summer Production Casual, Tinyme** | **Dec 2014 – Feb 2015** |
| **Responsibilities:** Manufacturing, picking, packing and dispatch of lunch bags, drink bottles, clothing, name labels, calendars, diaries, etc.  **Outcomes:**   * Familiarity with production equipment such as heat presses and digital print cutters * Ability to cope with working in a fast-paced environment * Assisted the company in reducing the production backlog during peak seasons, and ensuring punctual delivery of all products | |
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| **Manufacturing Engineering (ME) Intern, HGST** | **Jan – Feb 2014** |
| **Responsibilities:** Assisted in monthly and quarterly preventive maintenance sessions of production equipment, and maintained backlog of machine downtimes for tracking and process optimization purposes.  **Outcomes:**   * Familiarity with the layout and operation of a typical manufacturing plant, which is extensible to production facilities across various industries * Enabled the production team leader to optimize production processes and boost efficiency using machine backlog data | |

# Skills and Personal Qualities

**Technical Skills**

* Programming languages (C++, Python, Verilog, Programmable Logic Controller [PLC], MATLAB, MIPS Assembly, Nios and µC/OS-II Real Time Kernel, Computer Numerically Controlled [CNC] GM Code)
* Linux-based operating systems
* Computer-aided design (SolidWorks, Abaqus CAE, NX 7.5 [CAD/CAM Package])
* Microsoft Office productivity suite

**Analytical Skills**

* ***Final Year Project (FYP): Autonomous Mobile Robotics, 2016***
  + Conducted thorough research into Simultaneous Localization and Mapping (SLAM) and path planning/obstacle avoidance methodologies using 2 Nomadic Technologies robots as research platforms
  + Incorporated modern desktop virtualization software (VMware) into the project in lieu of legacy hardware
  + Set up the framework for continuity of future research projects by providing comprehensive documentation, backups of project works and points of contact for enquiries
* ***Mechatronics Project II, 2015***
  + Collaborated with 2 team members in the design and programming of an autonomous model car with computer vision using an onboard Linux computer and microcontroller
  + Primary responsibilities in electronics design, C++ algorithm coding and microcontroller programming
* ***Mechatronics Project I, 2014***
  + Assumed leadership of a 4-person team to design, program, optimize and document a vending machine, as well as acting as the primary liaison person with the project supervisor
  + Delegated tasks efficiently according to team member’s strengths, kept track of progress and held team members accountable for their responsibilities
  + Conceptualized and optimized the design of a tool dispensing mechanism using SolidWorks that was rapid prototyped using a 3D printer

**Soft Skills**

* ***Teamwork***
  + From various university group projects and assignments, peer assessment review results have generally been positive
* ***Cultural awareness***
  + Experience with working and achieving in teams of various nationalities (Malaysian, Australian, Vietnamese, Indonesian, German, Swedish) in group projects and club events

**Language**

* English, Chinese (Mandarin, Cantonese, Hokkien dialects), Bahasa Malaysia, German (CEFR A2 Certificate), Japanese (JLPT Level 3 Certificate [N3 equivalent])

# Volunteering Experience

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| **Op Shop Store Assistant**  RSPCA Op Shop | **Mar 2017 - Present** |
| **Responsibilities:**  Cash register duties, general store upkeep, product pricing and waste management | |
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| **Various Roles**  ASEAN Games Australia (AGA) | **Sept 2014 & 2016** |
| **Responsibilities:**   * 2014: General volunteer and umpire for Badminton Department * 2016: General volunteer, usher and assistant referee for Futsal (Indoor Soccer) Department | |

# Extra-curricular Activities

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| **Monash German Club**  General Representative  (Jan 2015 – Jun 2016)  Secretary (Jul – Nov 2016) | * Facilitated chat club events twice a week * Assisted in orientation week activities and boosted club membership by 6% * Co-organized a joint Oktoberfest event with Melbourne University with more than 200 attendees |
|  |  |
| **American Field Service (AFS) Intercultural Exchange Programme**  Participant to Cologne, Germany (Jul 2011 – Jan 2012) | * Picked up on functional German language skills * Developed a strong understanding of and interest in German culture and values |
|  |  |
| **Monash Entrepreneurship Club (MEC)**  Sub-committee (Jan – Jun 2014) | * Facilitated ticket sales for the Monash Comedy Central event achieving 5% of sales, as well as assisting in pre-event preparations and event day operations |

# Referees

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