

# Ken Ric, 001

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## 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

### Bachelor of Mechatronics Engineering (Honours)

Feb 2013 – Dec 2016

Monash University

First Class Honours with distinction average (GPA: 3.469; WAM: 77.96%)

### Monash University Foundation Year (MUFY)

Jan – Dec 2012

Sunway University College

Achievements: Highest overall score for class of 2012 (376/400),  
subject awards for Physics and Advanced  
Mathematics, qualified for Monash University  
Entrance Scholarship

## Work Experience



### Sushi Artisan

Sushi Sushi

Apr 2017 - Present

**Responsibilities:** Customer service, store upkeep and cleaning, and kitchen duties

**Outcomes:**

- Provided satisfactory service to customers during lunch-hour rushes in a high-pressure environment
- Familiarity with point-of-sales (POS) system



### 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 as the work duration was inclusive of the Christmas and back-to-school peak seasons
- Assisted the company in reducing the production backlog during peak seasons, and ensuring punctual delivery of all products
- Learnt to work in a team alongside other production staff



### 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 keep track of error-prone machines/cells which served as a springboard to optimize production processes and boost efficiency

## Skills and Personal Qualities

**Technical Skills**

- Programming languages (C++, Python, Verilog, Programmable Logic Controller [PLC], MATLAB, Nios and  $\mu$ C/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
  - Achieved a Distinction grade as a result of the team's effort
- ***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
  - Achieved a High Distinction grade as a result of the team's efforts

**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

### Op Shop Store Assistant

Mar 2017 - Present

RSPCA Op Shop

#### Responsibilities:

Cash register duties, general store upkeep, product pricing and waste management

### Various Roles

Sept 2014 & 2016

ASEAN Games Australia (AGA)

#### Responsibilities:

- 2014: General volunteer and umpire for Badminton Department
- 2016: General volunteer, usher and assistant referee for Futsal (Indoor Soccer) Department

## Extra-curricular Activities

### 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

### Byron Tabet

Civil Engineer

GHD

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### Kayla Kearns

Student

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