

# Pang, Siew La

SPR

+(65) 9397 6263

siewla90@gmail.com

<https://www.linkedin.com/in/siewlapang>

#06-354, Blk 450A, Tampines Street 42, Singapore 521450



## Summary

Accomplished, proactive engineer with significant experiences in mechanical design, testing, analysis and project coordination seeking for a position to apply leadership and communication skills for the overall benefit of the organization. Possesses extensive educational qualifications, with Master's and Bachelor's degrees in Mechanical Engineering.

Core Competencies and professional strengths include:

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|--|--|
| <input type="checkbox"/> Cross-Functional Collaborations | <input type="checkbox"/> Programming                 |
| <input type="checkbox"/> Research and Development        | <input type="checkbox"/> Quality Control             |
| <input type="checkbox"/> Mechanical Design               | <input type="checkbox"/> Documentations              |
| <input type="checkbox"/> Project Management              | <input type="checkbox"/> Design for Assembly         |
| <input type="checkbox"/> Lean Manufacturing              | <input type="checkbox"/> Mechanical Testing/Analysis |
| <input type="checkbox"/> Data Validation                 | <input type="checkbox"/> Process Improvement         |

## Educations

University Technology Malaysia (UTM), Malaysia  
**Masters of Science in Mechanical Engineering (BSME)**  
(Offshore/Part Time)

Oct 2016  
CGPA: 3.46/4.00

Purdue University, USA  
**Bachelors of Science in Mechanical Engineering (BSME)**

May 2013  
CGPA: 3.37/4.00

## Professional Experiences

**Mechanical Design Engineer (RnD)**  
**Datumstruct (S) Pte Ltd**

Sept 2018 – Present

- Assisted in patent write-up for smart data centre lift with automated height pre-set feature and micro height precision adjustment before joining.
- In charged of NEA Innovation Grant Call (Integrated autonomous hard floor scrubber with security surveillance capabilities) technical write-up and conceptual design – shortlisted for pitching and pending results.
- Participated in SIMTech Robotic Training (Knowledge transfer of Robot Operating System).
- Involved in IP Hatchday 2018 – Portfolio 10 (Total Security) – secured IP Portfolio licensing offered by Panasonic.
- Initiated and Developed 3 d-series robots conceptual design
  - D1bot - Security + Interactive
  - D2bot - Security + Cleaning
  - D3bot - Security + Asset Tracking in Data Centre
- Liaised with key partner in China directly for implementing autonomous hard floor scrubber in Singapore.

**Senior Mechanical Design Engineer**

Aug 2016 – Sep 2017

**Magnum Essence Sdn Bhd**

- Involved solely in providing design and manufacturing solution to secure existing Pin pad devices from Ingenico, Verifone and others.
- In charged from development, tooling, manufacturing, production up to assembly line in with vendors in China.
- Managed work flow and provided manufacturing details to inspection and assembly management.
- Followed up on the production milestones from idea conceptualisation, prototype pre-production and production sample stages.
- Liaised with key vendors in China directly to ensure timely availability of the samples, costing and all technical data related to the specific projects.
- Provided technical advice to resolve engineering problems from after sales in order to resolve end users' complaints.

**Mechanical Design Engineer**

Oct 2013 – Aug 2016

**Dyson Manufacturing Sdn Bhd (DMSB)**

- Involved in design and improve the drives mechanism and mobility of Dyson first automatous vacuum cleaner.
- Initiated and developed one key test rig utilized LabVIEW and statistical analysis that benefited all the team members, significantly reduced the set up and testing time for initial drive performance.
- Provided analytical support using Minitab to ensure the drive mechanism of the vacuum cleaner satisfy the targeted performance specifications.
- Liaised with internal test team and external vendors to develop test rig and engineering samples for early design stage investigation, study and testing.
- Performed design calculation, managed bills of materials generation and amendments as necessary.
- Prepared technical documentations for projects and evaluated test results according to industry and in-house standards and regulations.

**Gap Year Experiences****New Zealand Working Holiday 2018**

March 2018 – Aug 2018

**New Zealand**

- Mt. Erin Fruit Services (Apples Grading and Packing) - March 2018
- Gourmet Blueberries Limited (Blueberries Picking) - April 2018
- Hume Pack-N-Cool (Kiwis Packing) - May 2018
- Mr Apple New Zealand (Apples Grading, Bagging and Packing) - June 2018-> July 2018
- The Bottling Company (wine bottling) - Aug 2018

**Skills**

Competency in Mechanical engineering design, statistical and simulation software  
E.g. Solidworks, Unigraphics, Minitab, Catia v5, Labview, EES, etc.

**Programming**

Proficiency in MATLAB, C++ and Perl languages.  
Familiar with Windows and UNIX platforms.

**Languages**

Fluent in English, Mandarin and Malay  
Advanced in Chinese dialects (Hokkien and Cantonese)

**\*\*Notice Period: 1 Month**