

Aye Chan Kyaw (Louis)

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Professional Summary

Mechanical Design Engineer with a Master's in Mechanical Engineering Design (High Distinction) and over 2 years of hands-on experience in product development, design engineering, and prototyping. Proficient in SolidWorks, AutoCAD, and 3D printing, with a strong background in refining engineering concepts into practical, production-friendly products. Experienced in managing complex projects, maintaining high-quality documentation, and collaborating with cross-functional teams to drive continuous improvement.

Education

Master of Engineering (Professional) DEAKIN UNIVERSITY, Waurin Ponds, VIC

March 2020 – June 2023

- Major: Mechanical Engineering Design and Additive Manufacturing
- Grade: High Distinction Average
- Achievements: Recipient of Deakin Vice-Chancellor Full Scholarship

Bachelor of Engineering WEST YANGON TECHNOLOGICAL UNIVERSITY, Yangon, Myanmar

December 2012 - September 2018

- Major: Mechanical Engineering
 - Grade: GPA of 4.87 out of 5.00
 - Achievements: Final year capstone project ranked 1st in Faculty
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Engineering Experience

MECHANICAL DESIGN ENGINEER Makara Designs, Richmond, VIC

December 2023 – November 2024

- Transformed design concepts into production-ready 3D models using SolidWorks, ensuring manufacturability while maintaining design integrity.
- Led prototyping and hands-on building using 3D printing to validate designs, ensuring practicality and functionality before production.
- Managed full product lifecycles, collaborating with suppliers and fabricators to meet project specifications and deadlines.
- Applied ISO 9001 design control procedures, improving documentation and quality assurance across projects.

DESIGN AND PRODUCTION SPECIALIST Concrete Digital Engineering, Hoppers Crossing, VIC

August 2022 – September 2023

- Conducted hands-on prototyping and testing, refining designs to ensure they were practical, realistic, and production-friendly.
- Designed and fabricated bespoke components using CNC routing, 3D printing, and laser cutting.
- Implemented Kaizen principles to enhance production processes, reducing material waste and improving operational efficiency.
- Integrated DFX principles to enhance manufacturability and reduce material waste by 10%.

SERVICE ADVISOR Motor Union, Yangon, Myanmar

July 2018 – June 2019

- Managed customer communications and technical diagnostics, ensuring high service quality and client satisfaction.
- Optimised workflow documentation, reducing service resolution times by 15%.
- Ensured strict adherence to workplace safety and quality assurance protocols.

Publication

"A Combined Reverse Engineering and Multi-Criteria Decision-Making Approach for Remanufacturing Classic Car Part"
Procedia CIRP, Presented at CIRP Design Conference 2023, UNSW, Sydney

- Utilised advanced 3D laser scanning and 3D printing techniques to prototype and validate the remanufacturing of classic car parts, demonstrating the feasibility of decentralised manufacturing for SMEs.
- Applied metrology tools (Creaform HandyScan Silver) for quality assurance, ensuring precision and repeatability in the production process.
- Demonstrated the potential of Industry 4.0 technologies to support reshoring and sustainable manufacturing practices.

Internship Experience

COLLABORATIVE RESEARCH ASSISTANT

Deakin University, Waurin Ponds, VIC

November 2022 – June 2023

- Developed mathematical models to analyse NOx emissions in diesel engines, contributing to sustainable engine research.
- Applied principal component analysis (PCA) to identify key performance factors affecting emissions.
- Presented findings to cross-functional teams, supporting ongoing advancements in automotive technology.

Technical Skills

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| • SolidWorks (Advanced) | • Microsoft Office suite (Intermediate) | • V Carve Pro (Advanced) |
| • Autodesk Fusion360 (Advanced) | • Keyshot (Intermediate) | • Lightburn (Advanced) |
| • MS Project (Intermediate) | • Asana (Advanced) | • VX element (Intermediate) |
| • Endnote (Advanced) | • Abaqus (Intermediate) | • MATLAB (Intermediate) |

Referees

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|--|--|--|
| • Wei Xu (on request) | • Tasimba Munikwa (on request) | • William Murphy (on request) |
| • Associate Professor, Deakin University | • Industrial Designer, Makara Designs | • Director, Concrete Digital Engineering |
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