

Cheng Sheng LOONG

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LANGUAGE

English Advanced
Mandarin Advanced
Cantonese Advanced
Malay Advanced

SKILL

Software

Solidworks, CatiaV5, SolidEdge,
AutoCAD, Ansys Structural Analysis,
Ansys LS-Dyna, Ansys Fluent, Star
CCM+, Matlab, Python, C++, HTML,
CSS, Javascript

Technical Skill

Composite Lamination, Welding,
Turning & Milling, CNC&NCM

Soft Skill

Project Management, Communication,
Adaptive, Time Management

Portfolio



PROFILE

A diligent MSc Automotive Engineering student with extensive experience in automobile design, manufacturing, and real-life projects. Skilled in practical training, teamwork, and communication, and seeking a challenging role to apply and enhance my expertise.

EDUCATION

MSc Automotive Engineering 09/2023 – 01/2025 (Expected)

University of Hertfordshire

Expected CGPA: 4.1/4.5

BEng Mechanical Engineering 09/2016 – 08/2020

Hong Kong Polytechnic University

First Class Honours | CGPA for Award: 3.90 / 4.00

EXPERIENCE

Mechanical Design Team Leader 09/2023 – 01/2025 (Expected)

UH Racing Autonomous Team (Formula Student Autonomous)

- Achieved to design and manufacture mounts for sensors, cameras, lidar, etc
- Accomplish executing race car local planning and control with coordination with the Perception Team with Python in ROS2 in Ubuntu 20.04
- Successful in generating race car optimum race line and velocity profile with quadratic programming optimization

Award

6th in Overall FSAI Championship, 2nd in Overall Static Competition, 3rd in Design Presentation

Acoustic Assistant Consultant 09/2020 – 08/2023

Wilson Ho and Associates Limited

- Performed acoustic consultancy service for Construction Noise Permit (CNP) applications by conducting Groundborne Noise (GBN) and Airborne Noise (ABN) assessments.
- Executed over 50 Sound Power Level measurements according to ISO 3746 or Directive 2000/13/EC to obtain the noise level of the machines
- Implemented over 50 Insertion Loss (IL) measurements according to ISO 10847 to obtain the noise reduction level of noise mitigation
- Cooperated with clients to provide design/advice of viable noise mitigation measures and control with possible latest technology

Key Project

Trunk Road T2 and Cha Kwo Ling Tunnel Construction Stage | 2020-2023

Central Kowloon Route – Central Construction Stage | 2020-2023

The 51st Internoise Conference 2022 in Glasgow: Presentation Presenter | 2022

Deputy Technical Officer 11/2016 – 08/2021

HK PolyU Racing Team (Formula Student Electric Car)

- Achieved to design and manufacture vehicle system (Chassis system, aerodynamic packages, suspension, gearbox and accumulator)
- Completed overall electrical and electronic wiring harness manufacturing
- Delivered mechanical structural analysis on chassis frame with Solidworks, Ansys Structural and Ansys Topology
- Carry out CFD Analysis on aerodynamic packages and accumulator internal cooling flow with Ansys Fluent.

Award

Technical Inspection Award, 7th in Business Presentation