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)
- Managed 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
- Provide acoustic consultancy service for Construction Noise Permit (CNP) applications by conducting Groundborne Noise (GBN) and Airborne Noise (ABN) assessments.
- Conducted over 50 Sound Power Level measurements according to ISO 3746 or Directive 2000/13/EC to obtain the noise level of the machines
- Conducted over 50 Insertion Loss (IL) measurements according to ISO 10847 to obtain the noise reduction level of noise mitigation
- Design/Advise 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
UH Racing Autonomous Team (Formula Student Autonomous)
- Achieve in vehicle system (Chassis system, aerodynamic packages, suspension, gearbox and accumulator) design and manufacture
- Overall electrical and electronic wiring harness manufacturing
- Carry out 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