

# Cheng Sheng LOONG

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## LANGUAGE

<b>English</b>	Advanced
<b>Mandarin</b>	Advanced
<b>Cantonese</b>	Advanced
<b>Malay</b>	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

6<sup>th</sup> in Overall FSAI Championship, 2<sup>nd</sup> in Overall Static Competition, 3<sup>rd</sup> 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**  
*HK PolyU Racing Team (Formula Student Electric Car)*

- 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, 7<sup>th</sup> in Business Presentation