

LOONG Cheng Sheng

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EDUCATION

MSc Automotive Engineering

Sept 2023-Now

University of Hertfordshire

Expected CGPA: 3.6/4.5 | Expected Graduation Date: Jan 2025

BEng Mechanical Engineering

Sept 2016-Aug 2020

Hong Kong Polytechnic University

First Class Honours | CGPA for Award: 3.90 / 4.00

EXPERIENCE

Planning and Control Team Executive, Mechanical Design Team Leader

Sept 2023-Now

UH Racing Autonomous Team (Formula Student Autonomous)

- Managed to design and manufacture mounts for sensors, cameras, lidar, etc with CatiaV5.
- Accomplish executing race car local planning and control with coordination with Perception Team with Python in ROS2 in Ubuntu 20.04 as well as race car optimum race line and velocity profile with quadratic programming optimization using weightage between minimum curvature or shortest path in Matlab and Python.

Acoustic Assistant Consultant

Sept 2020-Aug 2023

Wilson Ho and Associates Limited

- Sound Power Level measurement according to ISO 3746 or Directive 2000/13/EC to obtain the noise level of the machines.
- Insertion Loss (IL) measurement according to ISO 10847 to obtain the noise reduction level of noise mitigation.
- Carry out over 50 GBN and ABN assessment, monitoring and control.
- Design/Advise noise mitigation measures and control with possible latest technology.

Alumni Technical Advisor, Deputy Technical Officer

Nov 2016/11-Aug 2021

HK PolyU Racing Team (Formula Student Electric Car)

- Achieve design and manufacture of vehicle system (Chassis system, aerodynamic packages, suspension, gearbox and accumulator) design with the use of Solidworks, KISSsoft, KISSsys, Lotus, etc.
- Overall electrical and electronic wiring harness manufacturing.
- Carry out mechanical structural analysis with Solidworks, Ansys Structural and Ansys Topology.
- Carry out CFD Analysis on aerodynamic packages and accumulator internal cooling flow with Ansys.

SKILL

TECHNICAL SKILLS

Composite lamination

Advanced

SOFTWARES

Solidworks, SolidEdge, CatiaV5, AutoCAD

Advanced

Welding

Intermediate

Ansys Structural Analysis, ABAQUS

Intermediate

CNC&NCM

Intermediate

Ansys Fluent, CFX, Star CCM+

Advanced

Turning & Milling

Advanced

MATLAB, C++, Python, Java, JavaFX

Advanced

SOFT SKILLS

Project Management

Advanced

LANGUAGE

English

Advanced

Communication

Advanced

Mandarin

Advanced

Adaptive

Advanced

Cantonese

Advanced

Time Management

Advanced

Malay

Advanced