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Education Background

2021 – 2024	Master of Philosophy (M.Phil.) in Mechanical Engineering, Hong Kong University of Science and Technology (HKUST), Supervisor: Prof. Stéphane Redonnet, Prof. Hongyu Yu Awarded as: Department Teaching Assistant Award, 1 st Runner-up, Fall 2022-23	Hong Kong SAR, China
2017 – 2021	Bachelor of Engineering in Aerospace Engineering, HKUST Supported by: HKSAR Government Scholarship	1 st Class Honors GPA 3.9/4.3 HKSAR
Jan. 2020	Study abroad at Sophia University	GPA 4.0/4.0 Tokyo, Japan
Aug. – Dec. 2019	Exchange to Georgia Institute of Technology Supported by: ITC/HSBC/HKFGY Innovation and Technology Scholarship	GPA 3.8/4.0 Atlanta, USA
2011 – 2017	Buddhist Sun Heung Lam Memorial College (佛教沉香林纪念中学)	HKSAR

Work & Research Experience

2024 – 2025	System Engineer and Acting Admin Head, “Multi-Functional Lunar Surface Robot with Mobile Charging Station”, HKUST /Hong Kong Space Robotics and Robotics Centre <ul style="list-style-type: none">Reviewed spacecraft design and performed mission analysis	
2021 – 2024	M.Phil. Candidate, “Morphing Wing for Low Reynolds Application”, HKUST <ul style="list-style-type: none">Designed, built, and tested lab scale morphing wing prototypes of different designsExplored miniature drive mechanisms, shape memory actuation and soft materialsReduced duration of test by automating LabVIEW data acquisition programs	
2020 2018	Participant, Undergraduate Research Opportunities Program, HKUST <ul style="list-style-type: none">Performed numerical ground effects studies for aircrafts (Supervisor: Prof. Rhea Liem)Constructed and tested Na-ion Batteries prototypes (Supervisor: Prof. Francesco Ciucci)	
2019	Summer intern (Engine Overhaul), “Engine Monitoring and Diagnostic System”, Hong Kong Aero Engine Services Limited (HAESL) <ul style="list-style-type: none">Examined available products in market and revealed potential limitations in tight timelineDrafted a detailed workable design for management’s consideration	

Industry & Project Experience

2020 – 2021	Team Leader, Bio-inspired glider features (Final Year Design Project), HKUST <ul style="list-style-type: none">Familiarized with simulation and testing trends on bio-inspired aviation devicesConducted 140+ hours of wind tunnel experiments	
2020	System Sizing Engineer, Amphibious Aircraft Design (Course Project), HKUST <ul style="list-style-type: none">Sized lifting surfaces, control surfaces and landing gearCoordinated overall progress with 5 other members for timely work submission	
Sep. 19 – Mar. 2020 Sep. 18 – Jul. 2019	University Team Leader & Finalist (2019) and Project Engineer (2020), NASA Revolutionary Aerospace Systems Concepts Academic Linkage, Florida, USA <ul style="list-style-type: none">Designed a reusable Gateway-based Cis-Lunar payload transport and deploy system, in collaboration with 3 overseas universities (Drexel, RMIT and KAIST)Conceptualized a CubeSat based Adaptive Gripper System for various payload typesProposed an Adaptive Thrust System based on modularized engine modulesConducted risk analyses and management on different components	

Skills & Others

Programming	Python, C++, C, VBA, MATLAB, Markdown and LaTeX	
Software	LabVIEW, Solidworks, AutoCAD, Fusion 360, ANSYS Fluent, MS office, Photoshop, Premiere Pro, and Open Broadcaster Software (OBS)	
Language	Proficient English (IELTS 7.5, 2020), Native Cantonese, Proficient Mandarin, Basic German and Basic Japanese	
Hobbies	Piano (ABRSM Grade 8), Photo taking, and Digital Audio production	