

2017/18 Final Year Design Project

Project Title	Supervisor	No. of Students
Design, Build, and Fly a Model-size Amphibious Aircraft	Prof. Rhea Liem Prof. Xin Zhang	4
Design and Development of a Novel Electrostatic Precipitation Type Air Purifier by Using Polymer Type Collectors	Prof. Christopher Chao	4
Compact Aluminum-Air Battery for Unmanned Aerial Vehicles	Prof. Baoling Huang	4
MOEMS Packaging using 3D Printing with in-situ UV Curing	Prof. Ricky Lee	4
Robotic Gripper	Prof. Michael Wang	4
Development of multifunctional fiber-metal laminate composites for unmanned surface and underwater vehicles	Prof. Jinglei Wang	5
System for Launch/Recovery of Survey Devices on Unmanned Surface Vehicle	Prof. YS Gao	4
Deployable Origami Structure Using Memory Metal	Prof. Q. P. Sun	4
Robotic Manipulation	Prof. Jungwon Seo	5
Wireless, wearable graphene composite sensors for remote health monitoring	Prof. J. K. Kim	5
Design, Construction, and Flight Testing of an Unmanned Aerial Vehicle with Adetachable Goods Container	Prof. Xin Zhang Prof. Rhea Liem	4
Design of Flapping Wings' Micro Air Vehicles	Prof. Huihe Qiu	5
The effect of the cranial crest in pterosaur Thalassodromeus on aerodynamics and flight mechanics	Prof. Xun Huang	3
Energy Harvesting for Wearable Devices	Prof. S. H. Yao	4
Advanced Electrical Vehicle (EV)	Prof. David Lam	8
Gas or Electric Shower Heaters	Prof. Zhigang Li	4
Development of a Robotic 5-axis 3D Printing System	Prof. K Tang	4
Virtual International Project Team (VIPT) for the 7th Institution of Mechanical Engineer (IMechE) Design Competition	Prof. Robin Ma	4
Development of a Symmetrical Salt-Water Sodium-Ion Battery Prototype	Prof. F. Ciucci	4
State of Health Assessment for Rechargeable Batteries	Prof. Qing Chen	3
Development of a Ribbed Steel Bar Measurement Machine	Prof. Lilong Cai	4
Design and fabrication of an energy dense rechargeable fuel cell car model	Prof. T. S. Zhao	4
Design and development of an electric-powered radio-controlled aircraft for the 2018 AIAA Design-Build-Fly competition (Group 1)	Prof. Larry Li	4
Design and development of an electric-powered radio-controlled aircraft for the 2018 AIAA Design-Build-Fly competition (Group 2)	Prof. Larry Li	4
Auto UAV for Searching Path and Exploring and Unknown Area	Prof. Jungwon Seo	1