

*The Enginpreneurs Award 2021* (please refer to the Appendix for details of the awarded projects)

**The Enginpreneurs Award 2021 (for HKIE Members)**

Champion: Ir LEE Ka Kin, Mr OR Chun Yin  
Project: Building a Virus-Free Society -- C-Polar Technology

1st Runner-up: Ir Dr Albert KO, Mr Ian WONG  
Project: 12° Mask – Sustainable Transparent Filtration Mask

2nd Runner-up: Miss CHAN Sum Chau, Miss DWIVEDY Sampriti  
Project: Integrating BIM, IoT and Machine Learning for Smart Facility Management

Certificate of Merit

1. Ir CHEUNG Wai Man, Mr LAM Kwok Leung  
Project: Utilisation of Waste Heat from Cement Plant Clinker Cooler for the Production of GGBS in a Vertical Roller Mill
2. Miss LEUNG Wai Man, Miss WAI Yi Kwan Evelyn  
Project: Building an Environmentally Sustainable Hong Kong – What Can a Railway Do?

**The Enginpreneurs Award 2021 – Young Innovators (for tertiary students)**

Champion: Mr CHEUNG Ho Chi  
Project: Micro-hydropower system by domestic sewage in buildings

1st Runner-up: Miss LEUNG Hoi Yan, Miss WONG Lut Sam Serena, Mr CHAN Yat Fung  
Project: A Solar Power System for Producing Useful Fuels and Chemicals from Waste Materials

2nd Runner-up: Mr TSUI Chi Yu Dominic, Mr CHEUNG Ho Ching, Miss HO Yuen Shun, Mr CHUNG Chun Ning  
Project: A new way to reduce Heat Island Effect in HK – Coating on building surfaces

*The HKIE Innovation Award* (please refer to the Appendix for details of the awarded projects)

**The HKIE Innovation Award 2021**

**Category I – An Invention**

Awardee: Ir Chan Cheuk Ming

Project: 3D Printed Augmented Reality Copper Acupuncture Human Model  
(3D Acu-Man)

Certificates of Merit

1. Awardees: Ir Chan Hing Keung and Miss WONG Tai Wa  
Project: Vaporized Hydrogen Peroxide Disinfection Robot
2. Awardee: Ir Shi Ka Lam  
Project: Solar Responsive Ventilator (SRV)

**Category II – An Innovative Application of Engineering Theories**

Awardee: Ir Dr Zou Xiaokang, Ir Cheung Chi Kin, Ir Chung Man Yee Barry and Ir Jong King Hei

Project: Together We Build to Fight the Virus / Fast Track Design and Build of the World's First Hospital with All-MiC Negative Pressure 816 Beds in 4 Months – “The North Lantau Hospital Hong Kong Infection Control Centre”

Certificates of Merit

1. Awardee: Ir Kwok Kwong Yu David  
Project: Solid Lubrication Coating for Chang'e 5 Space Instruments
2. Awardees: Ir Kan Hon Shing, Ir Davys Lee, Ir So Yiu Wing Wilfred and Ir Chiang Kai Ming  
Project: Rectangular Tunnel Boring machine – Innovative First Application in Hong Kong for Construction of the Kai Tak – Choi Hung Subway

**The HKIE Innovation Award 2021 – Young Member Group**

**Category I – An Invention**

Awardee: Mr Muhammad Saad Shahid Anwel and Mr Taha Abid  
Project: “SNAPP” – The Search and Rescue (SAR) robotic fish

Certificate of Merit

Awardees: Ir Ng Ka Chun, Miss Tsang Yick Hang, Mr So Hon Lun and  
Mr So Tin Ching  
Project: Smart Trackside for Railway Operations

**Category II – An Innovative Application of Engineering Theories**

Awardee: Ir Lai Ho Keung, Mr Wong Ham Kwan Anthony and Ir Li Kin  
Lung  
Project: Fast-track Box Culvert Construction by Deep Cement Mixing  
Method

Certificates of Merit

1. Awardees: Mr Lau Wang Yip and Ir Hui Wing Yin  
Project: Video Analytics Monitoring System for Abnormal Behaviours  
Detection
2. Awardees: Mr Tang Chun Ki and Mr Wong Tat Chee  
Project: Aero-Hydroponic Agriculture IoT System (AHAS)