

TKKYIA Winners 2022

Silver Award:

Category	Entry Name	School/Institution	Team Member(s)
Student	Thermosensitive Annuloplasty Ring	NUS High School of Mathematics and Science	Chen Yanlin Jordan Low Jun Yi Kuo Hsin Wei
Open	FlexiPalms	National University of Singapore	Justin Tan (NUS) Mr Song Shang Wei (NUS) Dr Zeng Jialiu (NTU) Dr Lo Chih Hung (NTU)
Open	CHRIS: Collaborative Human-Robot Intelligent System	A*STAR, I2R	Nicolas Gauthier Gao Ruihan

Merit Award:

Category	Entry Name	School/Institution	Team Member(s)
Student	COMPACT	Singapore Chinese Girls' School	Praseeda Chowdary Chia Yi He Anna Tanish Sudha Sanjay
Student	HydroBox	Singapore Chinese Girls' School	Vera Tham Jannatara Jannat Rokan Lu Zi Hui

Student	Food supporter	River Valley High School (Secondary)	Mok Jia Xuan Nadya Ong Yu Xin Tan Jia Xuan Charmaine
Senior Student	Sit and Walk Walker	Institute of Technical Education – College Central	Lim En En Nur Elisha Natasha Binte Mohammad Sharul Camelia Leng Ying Xin
Senior Student	Singapore Metaverse	Millenia Institute	Winston Ng Yong Jie
Open	Boosting mobile robots using enhanced 3D localization	A*STAR, I2R	Saurab Verma Syed Zeeshan Ahmed Mukhtar Zhang Kun Chen Yuda Chun Ho Pang

Commendation Award:

Category	Entry Name	School/Institution	Team Member(s)
Junior	Photovoltaic-aurantiaca system	Self	Liow Jun Kai Lucas
Junior	Magnetic accessories and storage album (MASA)	Yumin Primary School	Lin Xinyu
Junior	Bioplastic packaging made from eggshells and groundnuts	Methodist Girls' School (Primary)	Yong Ximin Iris Yong Xin Lin Phoebe
Junior	Reading Tool for people with Dyslexia	Self	Caitlyn Lam
Junior	an easy-open plastic bag	Pei Hwa Presbyterian Primary School	Jin Kairui

Junior	EldBuddy	Bukit View Primary School	Srivikash Rameshkumar
Student	PPBP	River Valley High School (Secondary)	Alston Choo Shi Yuxiang
Student	CloseCall Screen Distance Alerting Device	Anglo-Chinese School (Independent) (Secondary)	Jeremy Tay Low Wern Jae Zach
Student	Instant cup noodle holder	Paya Lebar Methodist Girls' School (Secondary)	Cham En Qi Audrey Chuah Koen Lim
Student	DSSC from waste vegetables	Anglo-Chinese School (Independent) (Secondary)	Dayshaun Tan Nathan Koh Jun Xian Jasper Wee Wei Jun
Student	Smart Door	Chua Chu Kang Secondary School	Sriya Srinivasan Hino Cocoro Jayden Lee Ye
Student	Treecraft	River Valley High School (Secondary)	Cheng Yok Yong Palakkal Arjun Sarath Gabriel Lim Zhexi
Student	WhatDatBus	Raffles Institution (Secondary)	Lachlan Goh Cen Han Jerome Thio
Student	Animal Taxi	River Valley High School (Secondary)	Leong Quan Kai Chew Ching Ern Low Xin En Elicora
Student	One-Hand-Can Tray	Commonwealth Secondary School	Teh Shr Li Clarisse Tok Yijing Jayakumar Deshna
Student	Bus Handler	River Valley High School (Secondary)	Denise Tan Halyn Ng Hoe Kah

Student	Abandtrolley	Pei Hwa Secondary School	Matthew Tan Shezan Khan Mashal Sabarad
Senior Student	Bumpy Timebomb	Temasek Polytechnic	Shannon Bracken Wong Chua Yeo Mei Junnie Maria Chng Jin Hao
Senior Student	Smartrub	Nanyang Polytechnic	Foo Yi Yao
Senior Student	Fluorescent and Adsorbant Scales via Heating (FLASH)	NUS High School of Mathematics and Science	Malcolm Sow
Senior Student	Bioelectric	Hwa Chong Institution (Junior College)	Low Jeen Liang Yiu Yi Hin Kinsey Tan Wei An
Senior Student	"Mollusk"-nidin Freshness Stickers	Nanyang Junior College	Lee Rui Xuan
Senior Student	Home Based Vertical Farming (HBVF)	Institute of Technical Education – College Central	Nurulain Binte Abdul Rashid Muhammad Syakir B Sulong Indra Marzuqi Bin Muskh Bakar
Senior Student	RFM: ResourceFood (Resourceful) Machine	Victoria Junior College	Zhu Yuxin
Senior Student	Bridge	Singapore Polytechnic	Reyna Ong Soh Kian Lim Jerome Cheam Zhi Kai
Open	Newly-developed System for Accelerated External Cooling of Hot Brakes of Transport Aircraft Wheels after Landing using Water Mist and Latent Heat Method	Self	Brian Paul
Open	Q-venience	Singapore Institute of Technology	See Kai Wei

Encouragement Award:

Category	Entry Name	School/Institution	Team Member(s)
Junior	Safe distancing spectacles	Westwood Primary School	Kavin Sakthivel
Student	The SLIP-IN SOCK AID	Nanyang Girls' High School	Kirsten Lee Ooi Pei Qi Lai Chiew Tynn
Student	Disco Whale	Geylang Methodist School (Secondary)	Leow Xue Yan
Student	soupY	Chung Cheng High School (Main)	Denise Loo Hui Xian
Student	Soup Exportation Device (SED)	River Valley High School (Secondary)	Toh Zheng Yu Soo Sheng He Terry Zhang Hengwei
Student	ORCASYCLE	Admiralty Secondary School	Austin Toh
Student	UnFlux box	River Valley High School (Secondary)	Clement Chan

Judges' Award:

Category	Entry Name	School/Institution	Team Member(s)
Student	Tsunami Wall	Jurong Secondary School	Gurupreeth Kotian Saravanan Harirajan
Senior Student	Development of New Mechanisms for Accelerated Gas Purging & Remote Inspection of Aircraft Fuel Tanks	Republic Polytechnic	Afiq Rosli Muhammad Shamirzan Bin Khairul Yuhaesh Chandrasekaran

Schools Award:

1st Prize	River Valley High School (Secondary)
2nd Prize	Temasek Polytechnic
3rd Prize	National University of Singapore