

## IEEE Malaysia Section Newsletter IEEE Sarawak Subsection

Reported by Ong Chin Ann ([ongca@ieee.org](mailto:ongca@ieee.org))  
Website: <http://sarawak.ieeemy.org/>

### 8<sup>th</sup> AGM of IEEE Sarawak Subsection



8<sup>th</sup> IEEE Malaysia Sarawak Subsection  
AGM Hybrid Group Photo  
25 Feb 2023 @ Swinburne University of Technology,  
Sarawak Campus & Online

The IEEE Sarawak Subsection had its 8th Annual General Meeting held in hybrid mode both online and physically at the Swinburne University of Technology, Sarawak Campus on 25 Feb 2023.

The chair of the subsection, Dr. Jacey Lynn Minoi delivered the speech on activities and achievements in the past year and plans for the future. The subsection secretary presented the activities conducted and Treasurer reported the financial statement and expenditures for 2022. Following the dissolving the 2021-2022/23 committee, the election of executive committee of 2023-24/25 was carried out.

The newly elected IEEE Sarawak Subsection's committee members (2023-24/25) are as below:

Position	Name
Past Chair	Jacey-Lynn Minoi
Chair	Hudyjaya Siswoyo Jo
Vice-Chair	Mark Tee Kit Tsun
Honorary Secretary	Lee Beng Yong
Honorary Treasurer	Lau Bee Theng
Humanitarian Technology Activities	Then Yi Lung
Communication and Promotion	Ong Chin Ann
Professional Activities and Membership Development	Kelvin Yong Sheng Chek
Educational and Student Activities	Sheena Punai Anak Philimon

More information about the subsection can be found at <http://sarawak.ieeemy.org/>

### Secondary School Student Awarded Best Project for Smart Traffic Light Control System



On 23 March 2023, the IEEE Sarawak subsection organized a prize giving ceremony to award the best smart traffic light control system design which is the top best project demonstrated by the student after joining the "[IEEE Arduino Online Simulator \(WOKWI\)](#)

*challenge*" in May 2022. In this challenge, participants were given five months to complete the project setup and WOKWI simulation. The task is to design and implement innovative smart traffic light control system follow the previous WOKWI simulation workshop in May 2022.

Participants can use cardboard, A4 paper, straw, satay sticks, glue, marker pen any non-electronic material to build the system. The winner was selected base on the Innovation, Practicality, Use of simulation tool and Oral presentation performance.

"We are delighted to announce the top best project, namely T-junction traffic light system with pedestrian protection feature designed by Felix Thian Zhi Xiang from SMK Arang Road", said Ts Dr. Tay Fei Siang.

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### Members Of IEEE Malaysia Sarawak Subsection Awarded The IEEE EPICS Grant 2023



#### NEWS UPDATE FROM

**Lau Bee Theng (SMIEEE)  
and her team**

for securing the IEEE Engineering Projects in Community Service (EPICS) Grant for the following project:

**SELF-NAVIGATING ROBOTIC WALKING AID FOR ELDERLY PEOPLE USING MULTI-SENSOR FUSION-BASED HUMAN TRACKING**

Find out more at: <https://sarawak.ieeemy.org/>



The project, titled 'Self-Navigating Robotic Walking Aid for Elderly People Using Multi-Sensor Fusion-Based Human Tracking,' seeks to improve on existing walkers targeted at the elderly. The objective is to develop a prototype for a home-friendly, affordable solution to address this problem and aid the elderly.

The team comprises staff and students from Swinburne University of Technology Sarawak Campus, Faculty of Engineering, Computing and Science. The team has a well-balanced talents of IEEE senior members Lau Bee Theng and Mark Tee Kit Tsun, as well as IEEE graduate members Albe Chai Bing Zhe, Isaac Asante, and Atiqueh Islam.

The IEEE Sarawak Subsection and IEEE Swinburne Sarawak Student Branch proudly announce its newest engineering project under the IEEE Engineering Projects in Community Service, EPICS funding scheme.

### IEEE HAC/SIGHT 2022/23 Project - Integrated Smart Solar Lighting and Camera Surveillance System



In year 2022, a proposal led by Dr. Tan Chong Eng from UNIMAS who is also a member of IEEE Sarawak Subsection has been put forward to IEEE HAC/SIGHT in 2022 to implement smart solar lighting and camera surveillance system at Kampung Pasir Pandak, a fishing village located between the estuary of Sungai Santubong and Batang Salak (Kuching, Sarawak).

The project aims to lit the crucial fishing boat parking places along the shoreline to allow local fishermen to get better sights to surrounding before they get into the water and to approach their boats. This project also helps to monitor the areas of interest along the shoreline using long range wireless camera surveillance to allow study on the crocodile movement behavior in this area and subsequently create thorough awareness on the danger of crocodiles among villagers. Besides, the project also aims to educate the younger villages with basic knowledge on precautions.

The project team succeeded the implementation of the integrated solar lighting and camera surveillance system consists of Dr Tan Chong Eng (SMIEEE), Dr Lau Sei Ping (SMIEEE) and Dr Jacey Lynn Minoi (SMIEEE) as technology solution specialists, and Dr Aazani Mujahid plays the role of marine bio expert.