

*Republic of the Philippines*  
*Congress of the Philippines*  
**House of Representatives**  
*Metro Manila*  
*Eighteenth Congress*  
*Second Regular Session*

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Begun and held in Metro Manila, on Monday, the twenty-seventh day of July, two thousand twenty.

RESOLUTION NO. 170

RESOLUTION COMMENDING AND CONGRATULATING McSTEVEN MELICOR, CHRISTIAN JAMES FANTONIAL, AND ELRAM ESPRA OF THE PHILIPPINE SCIENCE HIGH SCHOOL CENTRAL VISAYAS CAMPUS FOR INVENTING THE MULTI-PURPOSE INTERCONNECTED TRANSCEIVER APPARATUS AND SECURING A PATENT FOR IT FROM THE INTELLECTUAL PROPERTY OFFICE OF THE PHILIPPINES

WHEREAS, McSteven Melicor, Christian James Fantonial, and Elram Espra, all of whom are students of the Philippine Science High School (PSHS) Central Visayas Campus, through the guidance of their Physics instructor, Mr. Benito Baje, invented the Multi-Purpose Interconnected Transceiver Apparatus, a device that helps users access real-time weather and atmospheric

conditions such as temperature, humidity, heat index, altitude, air pressure, and which is equipped with a Global Positioning System (GPS) that tracks the location of a person or object within its monitoring perimeter;

WHEREAS, the Multi-Purpose Interconnected Transceiver Apparatus consists of three devices: (a) the Main Device which collects real-time data from the other two devices and presents the information either through a liquid crystal display located in front of the main device or a software application that is compatible with mobile devices, (b) the Portable Weather Station which is equipped with sensors, a microcontroller, and a transceiver, and sends weather information to the main device through a transmitter, and (c) the Portable Tracker which determines a user's location using coordinates and sends it to the main device using the GPS Modules. The main device communicates with the weather station and the GPS tracker through the internet or radio frequency means;

WHEREAS, this invention can significantly contribute to the modernization of the country's agricultural sector, that can lead to an increase in farm productivity and farmer's incomes. The Multi-Purpose Interconnected Transceiver Apparatus weather monitoring capability can help farmers plan more strategically on the schedule of pesticide application, irrigation, and prevention of diseases, which can consequently result in lower input costs and higher crop yields. The GPS tracker may be used for a wide-range of location tracking purposes such as preventing robbery as the device sends an early warning to users once an object being monitored is lost. Moreover, its GPS tracker does not require internet connection, it can be used in rural areas where internet access is low or nonexistent, and thus promote the use of newer farming technologies and practices;

WHEREAS, the intellectual patent for the Multi-Purpose Interconnected Transceiver Apparatus is the first patent granted to young inventors of the PSHS Central Visayas and first ever across the 16 campuses under the PSHS network, a feat that can be credited to Mr. Baje, who inculcated among his students an appreciation for inventing and for intellectual property development, and thus inspired the three students to apply and obtain a patent for their invention;

WHEREAS, the achievement garnered by these young scientists is undeniably outstanding, a concrete proof of Filipino ingenuity in the field of science-based research and innovation;

WHEREAS, PSHS students McSteven Melicor, Christian James Fantonial and Elram Espra deserve recognition for the invention and the honor that they have brought to the PSHS Central Visayas Campus and to the country: Now, therefore, be it

*Resolved, as it is hereby resolved by the House of Representatives, To commend and congratulate McSteven Melicor, Christian James Fantonial, and Elram Espra of the Philippine Science High School Central Visayas Campus for inventing the Multi-Purpose Interconnected Transceiver Apparatus and securing a patent for it from the Intellectual Property Office of the Philippines.*

*Resolved, further, That a copy of this Resolution be furnished students McSteven Melicor, Christian James Fantonial, and Elram Espra of the Philippine Science High School Central Visayas Campus.*

Adopted,



LORD ALLAN JAY Q. VELASCO  
*Speaker*

This Resolution was adopted by the House of Representatives on May 25, 2021.



MARK LLANERO "DONG" L. MENDOZA  
*Secretary General*