

Malta Section

Edward Gatt

STEM Event at St. Monica School
(May 2023)

Students were provided with the basics of Scratch to promote computing. The students were given a crash course on the physics involved in motion to learn how to control the movement of the DJI Robomaster S1. With some quick demonstrations, the concepts of velocity, acceleration, forces as well as trigonometry were explained. After allowing the students to play around with the Robomaster application to get familiar with it, a pop quiz was held to test their understanding of the aforementioned topics. The students were all very eager and enthused about the friendly competition and both expressed their enjoyment of the experience at the end. The event was done in conjunction with the Computer Society.





EY Engage Event

IEEE Malta and the Computer Society supported the EY Engage Event which took place on 1st June 2023. IEEE provided networking with Malta's top CTOs and CIOs in IT management. The event focused on key technologies and trends that can help in business transformations. IEEE participated in roundtables and workshops discussing the technical solutions and practices in industry.





4

Final Year Project Awards Night

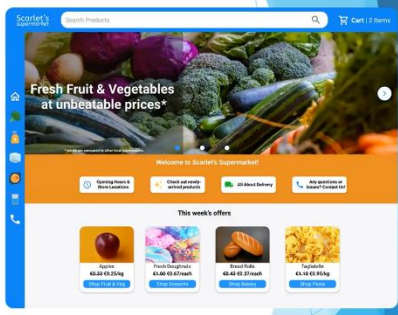
The final year project competition was held online on the 8th June 2023. Three awards were decided – best electrical engineering project, best mechanical engineering project and the best ICT project.

IEEE FYP Finals - Shared screen with speaker view

Who can see your viewing activity? X


Study's Methodology

- ▶ Methodology:
 - ▶ Creating Diverse Website Designs
 - ▶ Navigation Menus
 - ▶ Colour Diversity
 - ▶ Artistic Styles
 - ▶ Compiling & Piloting Survey
 - ▶ Response Gathering & Analysis



334

respondents



229

aged 18-34

105

aged 35-64

85%

Maltese

00:20:16 / 02:07:01 Speed


ICT Presentation

IEEE FYP Finals - Shared screen with speaker view

Who can see your viewing activity? X

Implications of Shear Pin Failure

- The shear pins have been found to fail prematurely.
- Shear pin failure can lead to relatively severe accidents and incidents including:
 - Iberia Express A320 accident in Dublin in 2017;
 - Nok Air B737 accident in Bangkok in 2020.
- Accident reports due to shear pin failure only expose the tip of the iceberg of the problem, and this warrants investigation into why these failures continue to occur.



00:58:00 / 02:07:01

Mechanical Engineering Presentation

IEEE FYP Finals - Shared screen with speaker view

Slide 3 of 19

Who can see your viewing activity? X

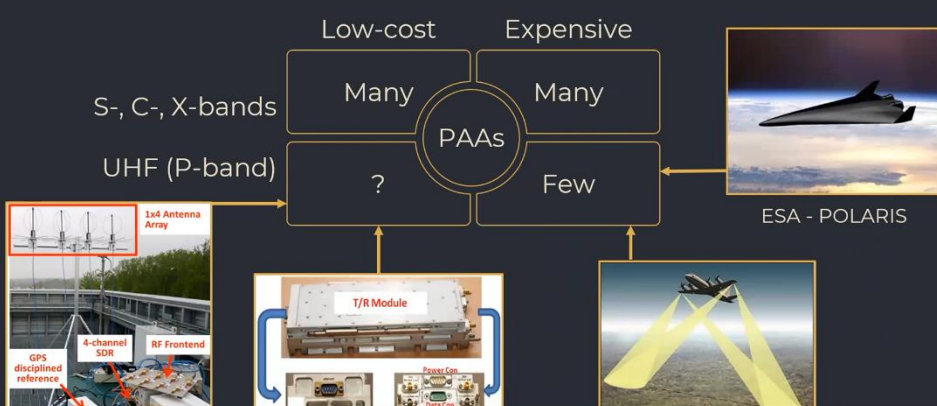
EXISTING PAA SYSTEMS

Low-cost Expensive

Many Many

UHF (P-band) ? PAA ? Few

S-, C-, X-bands



ESA - POLARIS

GPS disciplined reference 4-channel SDR RF Frontend 1x4 Antenna Array

T/R Module

Power Com

2016 [Rathod 2019] NASA - FcoSAR

01:46:39 / 02:07:01

Electrical Engineering Presentation

Final Year Project ICT Exhibition

IEEE Malta has sponsored the Final Year Project Exhibition at the University of Malta. The event occurred on the 7th July 2023. The Chair promoted IEEE with the new graduates and outlined the work carried out yearly. The event was also sponsored by the Computer Society.



Malta IEEE Region 8 Robotics Championships 2024

Several meetings were held in preparation for next year's event.