

# Synerflight

2024 highlight

**Where Innovation takes flight**

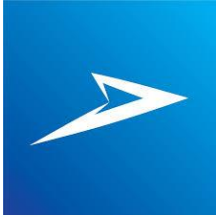
For more Information:  
[www.synerflight.com](http://www.synerflight.com)







THE  
EARTHSHOT  
PRIZE



**Fish-i**  
ANALYTICS®

**COAST 4C**

Coast4C is a social enterprise with a mission to build vibrant and resilient blue economies in marginalised coastal areas that benefit the 4Cs of Communities, Conservation, Commerce and Climate.

Always a pleasure to be back in the [#Philippines](#). And for this trip I'm stoked to see the deployment of some super cool [#technology](#) for biological monitoring of our [#iMPAs](#) being implemented by [Synerflight](#) (aerial and marine drones) and [fishi.ph](#) through [Coast 4C](#)'s super exciting collaboration with [OceanPixel](#)! Fantastic to see how technology can [#augment](#) [#community](#)-based marine conservation and management efforts and [#TRANSFORM](#) people's lives! [Even sweeter that this is all home-grown #tech in the Philippines](#) with the new generation of fish counters (makes my first job in this space extinct [Heather Koldewey](#)??).. And these are not our only tech [#collaborations](#) to accelerate [#change](#) in the [#seaweed](#) value chain and ensure that it can be [#regenerative](#)...

[Marine Environment and Resources Foundation, Inc.](#)





# CLIENTS REQUEST

## RC Victory

Flight controller Swap out from  
Align 470 to Synerduino F411



This project is with RC Victory /  
DJI Makati



## Flight controller Swap



# PROJECTS BY CLIENTS

## Rizal Techological University

Synerduino with Airspeed sensor installed directly without additional hardware



Assisted by Synerflight



## Airspeed Experiments





# PROJECTS BY CLIENTS

## Adamson University

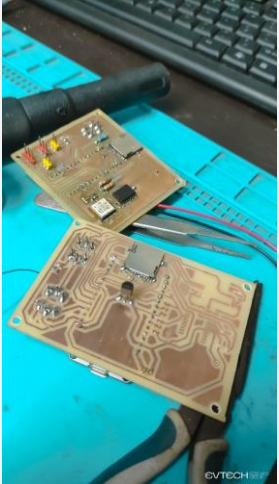
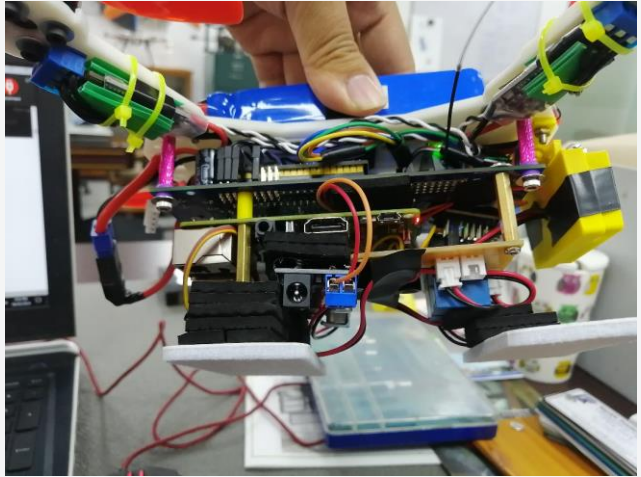
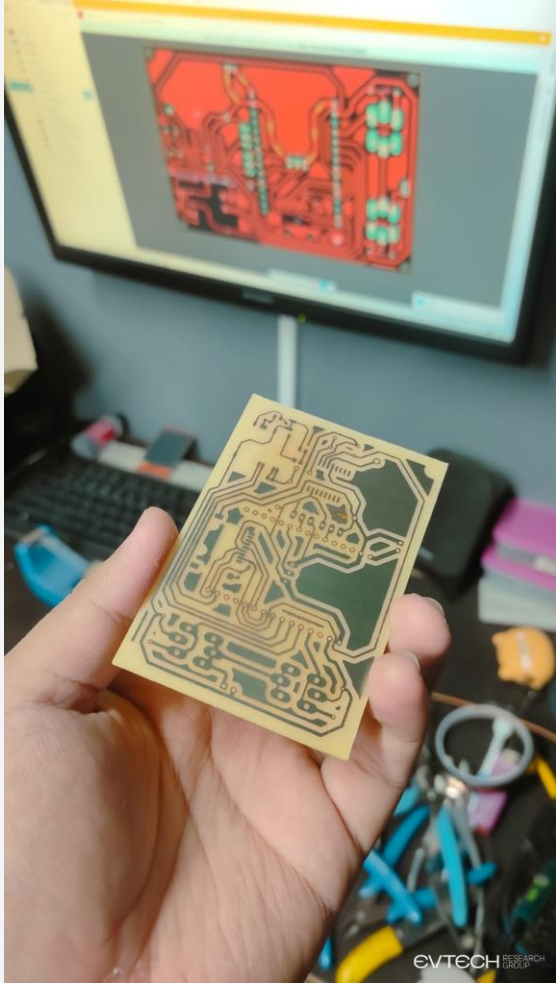
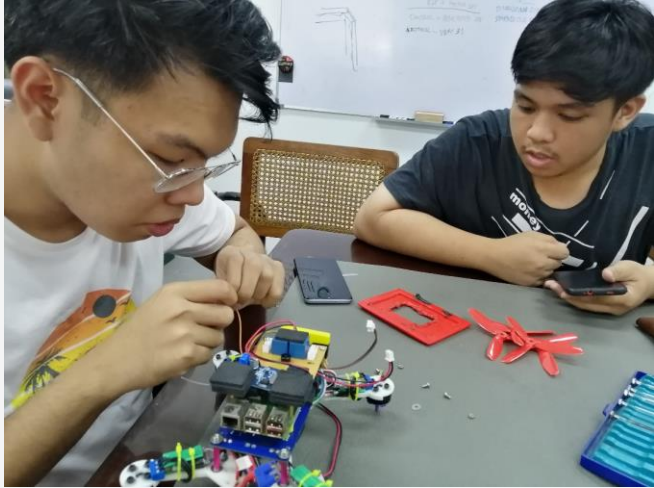
Utilizing computer Vision for object identification project



This project is Collaboration with EV Tech Fablab where EV Tech support Development of the the Payload component



## Image processing Drone





# PROJECTS BY CLIENTS

## FEATI University

Study on Flight controller implementation for Domestic application



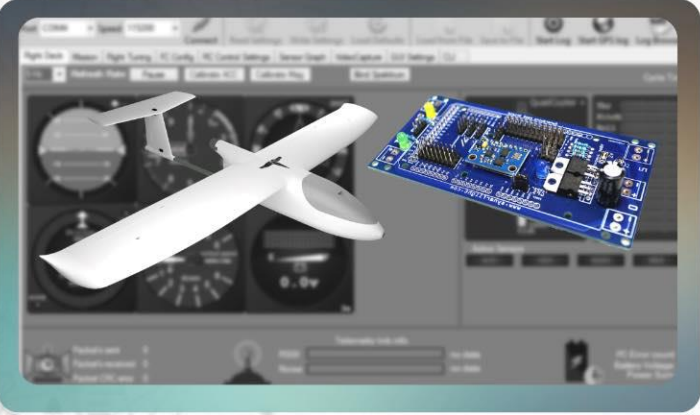
This project is Assisted by Angeles Flying club providing facility



## Fixwing for Aerial Surveillance



### Preliminary Development of a Low-Cost Synerduino Based Unmanned Aerial System for Aerial Surveillance



Unmanned Aerial Vehicles (UAVs) are now widely used for diverse missions and commercially available UAV systems offer ease of use and minimal training time. However, the cost of off-the-shelf aircraft models, especially those with sophisticated payloads, can be quite expensive, thus presents a barrier. Provisionally, Enthusiasts in the remote-control airplane hobby make use of affordable foam board materials and others nowadays, utilizes 3D printing to create a variety of UAV models. While Pixhawk Flight Controllers are popular for autonomous UAVs, their price, ranging from 180 to 400 US Dollars, poses a challenge for low-cost UAV development. Despite Pixhawk's dominance, its expense hinders budget-friendly UAV projects amidst the growing demand for autonomous flight control technology. To come up with an alternative solution, The researchers proposed on utilizing a Synerduino - Arduino Module flight controller module that will bridge the gap between our knowledge to basic Arduino Robotics and UAV platforms. Synerduino Module is a cheaper but a reliable alternative and serves as an all-in-one flight controller essential board, equipped with its own Ground Control Station software, FlyWii GUI Mission Planner, that fits on Arduino Mega 2560. Therefore, combining these two amateur approaches offers a chance to develop a UAV useful for future research, teaching, and other civil applications while also removing barriers to UAV usage.

# WORKSHOPS

## University of San Carlos Cebu

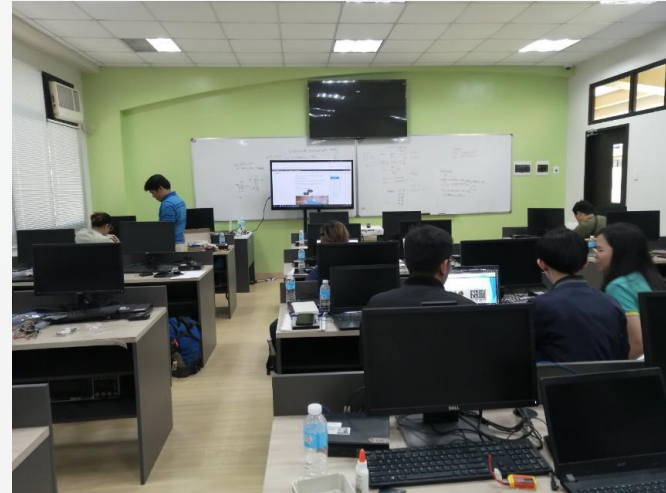
Conducted April 2024



Conducted by Synerflight



## Drone Building Workshops





# WORKSHOPS

## Philippine Marine Corps Force Development Center

Conducted Sept 2024



Conducted by Synerflight



## Drone Building Workshops



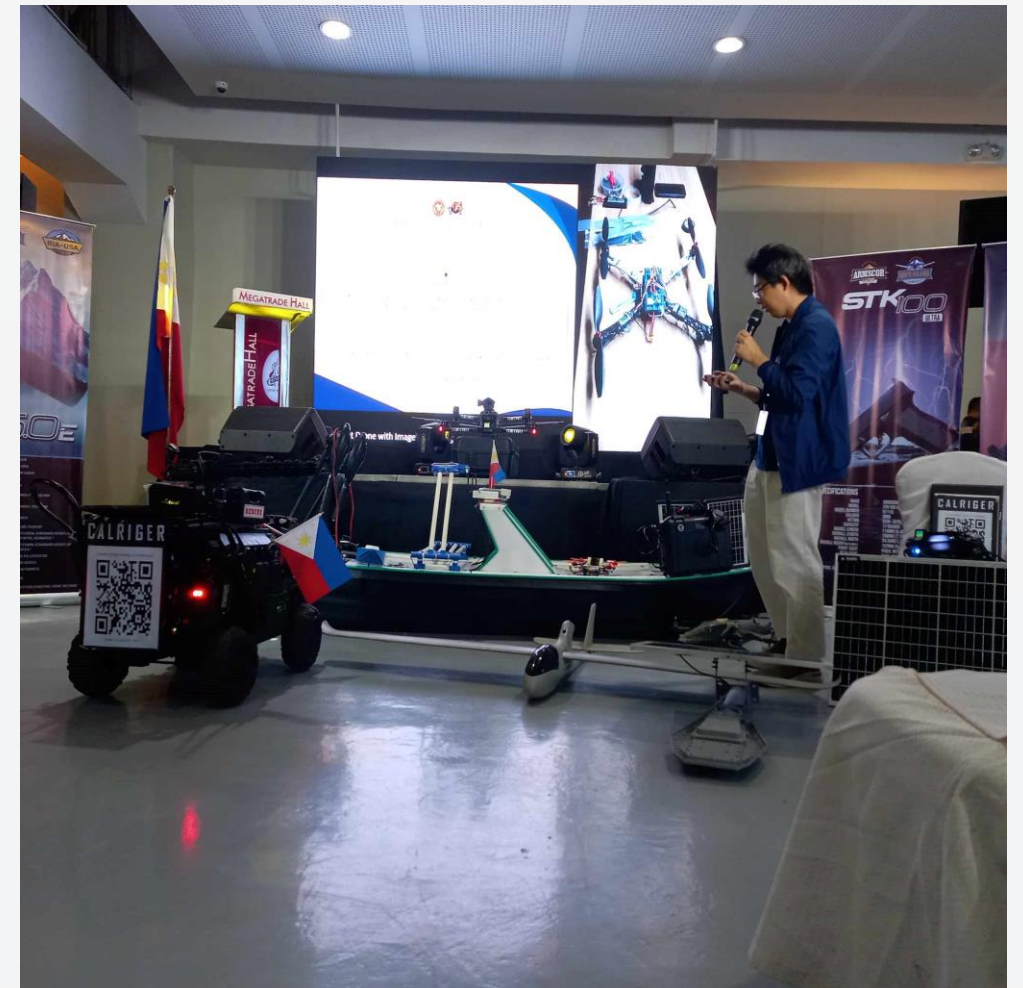


# EVENTS

Tactical Arms Survival  
Expo



EXHIBITOR



# EVENTS

i Academy Makati



ARDUINO DAY





# EVENTS

CSR Expo



Exhibitor

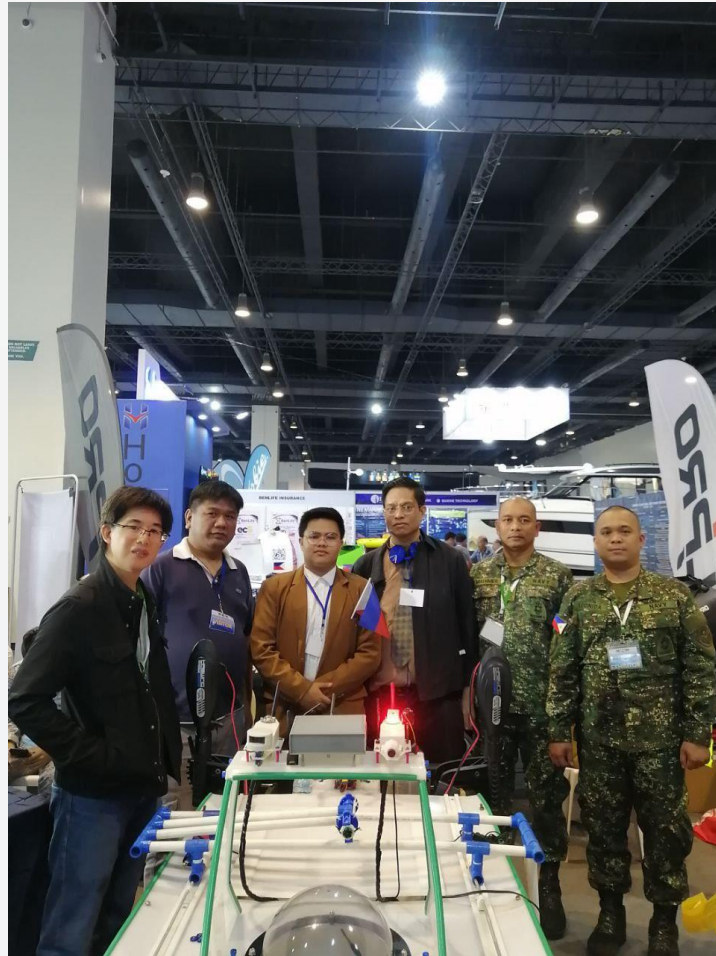


# EVENTS

BEACON 2024



Exhibitor





# EVENTS

## IOT Conference 2024



## Exhibitor



# EVENTS

## Philippine Marine Corps



Philippine Marine Corps celebrates 74th anniversary

