



SYNEROBOTICS

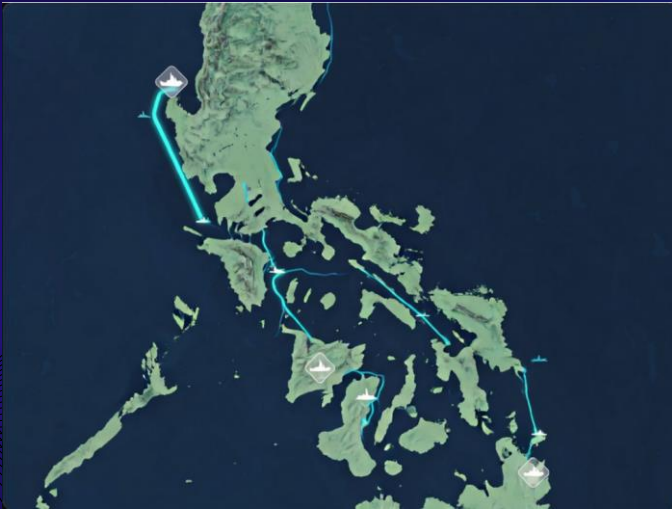
UNMANNED VESSELS



UNMANNED VESSELS SYSTEMS

The Philippines' vast archipelago presents significant inter-island Security , safety , logistical and supply-chain challenges.

To address these, Unmanned Surface Vessels (USVs) are moving beyond military surveillance to tackle critical commercial, hydrographic, and Environmental needs.



UNMANNED VESSELS SYSTEMS

Civilian/Commercial Angle: Currently very limited on purely commercial "USV Logistic Network" it has the potential to expand into a Low Volume High Frequency Network in coastal and inner water operations

Autonomous USV for last-mile island/coastal/inland Waters delivery/Ship-Shore Operations



DEVELOPER FLIGHT CONTROLLER

The Philippines sits at the apex of the global Coral Triangle, managing roughly 220 million hectares of territorial and EEZ waters. This vast maritime territory holds an estimated asset value of \$966.6 billion but faces severe threats from overfishing and habitat destruction.

Autonomous USV for Coastal Security , Marine Life monitoring and Remote weather sensing platform



SYNEROBOTICS USV PLATFORM

MARINE MONITORING

Use Case

- Mobile Sensor Buoy
- mapping platform
- Coastal monitoring

AUTONOMOUS RIDE VEHICLE & RESCUE CRAFT

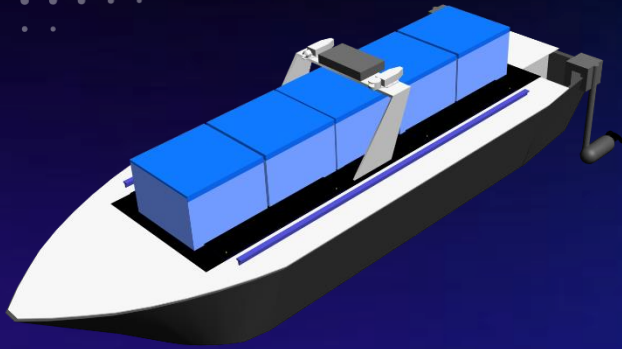
Use Case

- Tourist Shuttle craft
- Marina Tender

Specs option

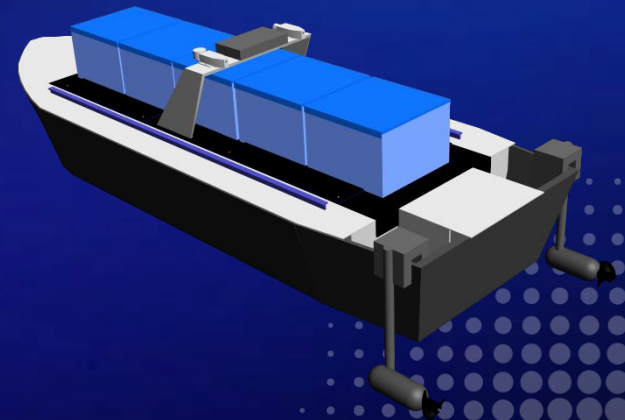
- Length - 2.4m
- Propulsion – Electric
- Fuel – Batteries
- Payload 150kg

SYNEROBOTICS USV PLATFORM



Use Case

- Low volume Last mile Logistics
- instrument platform



LOGISTIC CONCEPT MARINE SMALL DELIVERY ROBOT

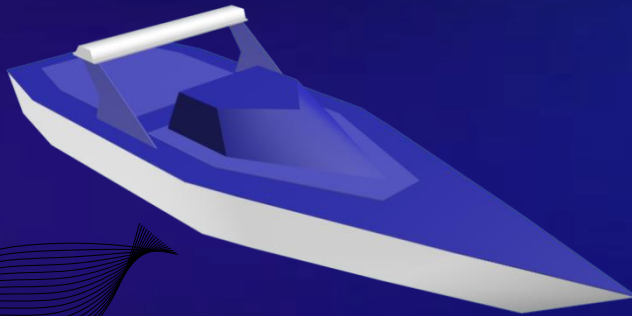
Specs option

- Length - 5m - 8m
- Propulsion – Electric Hybrid
- Fuel – Batteries / Fuel
- Payload 350kg-500kg

SYNEROBOTICS USV PLATFORM

Specs option

- Length – 5m
- Propulsion – Electric
- Fuel – Batteries
- Payload 250kg



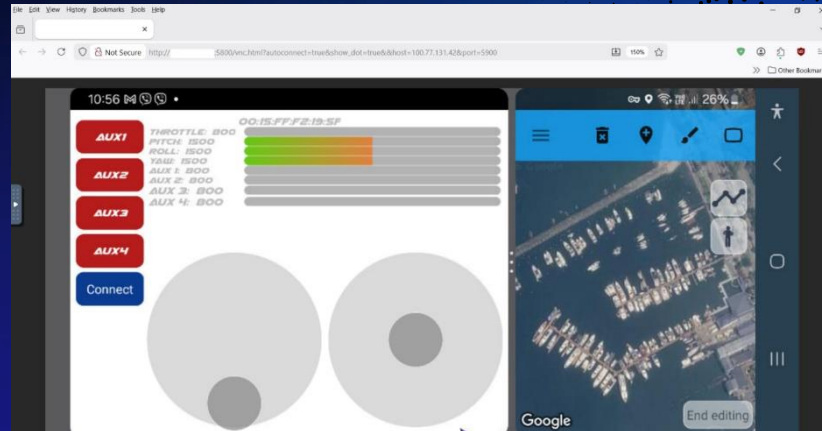
PATROL CRAFT AND WEATHER OBSERVATION

SYNEROBOTICS USV PLATFORM



DESIGN AND FABRICATION SERVICE

SYNEROBOTICS USV PLATFORM



OPERATING OPTION

Local Operation

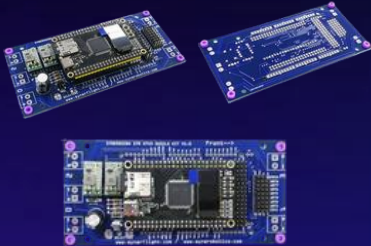
- RC Protocol
- LORA Radio
- SIK Radio
- FPV Systems

Remote Operation

- Mobile Networks 5G / LTE / 3G
- Sat Com – Starlink
- TCP IP / Long Range Wifi
- High Power LORA Mesh

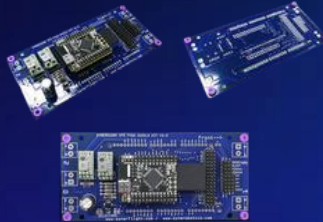
DEVELOPER CONTROLLER

SYNERDUINO STM H743



- ADVANCED STM32 H743 DEVELOPMENT BOARD
- EXTENSIVE CONNECTIVITY FOR SENSORS AND ACTUATORS
- RUGGED DESIGN FOR DEMANDING INDUSTRIAL ENVIRONMENTS
- SD CARD SLOT FOR BLACK BOX
- 12 PWM
- 4 ADC
- 6 UART

SYNERDUINO STM F405



- STM32 F405 DEVELOPMENT BOARD
- FLEXIBLE POWER OPTIONS (BEC IN/OUT)
- HARDWARE/SOFTWARE AGNOSTIC FOR VERSATILE INTEGRATION
- PERFECT FOR MODULAR ROBOTICS AND IOT EXPERIMENTS
- 10 PWM
- 4 ADC
- 4 UART

SYNERDUINO ARDUINO SHIELD 2560 V2



- COMPATIBLE WITH ARDUINO MEGA 2560
- EXTENDED CONNECTIVITY WITH SELECTORS AND PIN HEADERS
- SUPPORTS ROBOTICS, FLIGHT CONTROL, AND IOT APPLICATIONS
- BRIDGES ARDUINO SIMPLICITY WITH INDUSTRIAL-GRADE SYSTEMS
- 8PWM IN / OUT
- 1 ADC
- 4 UART

**SYNERBOTICS IS POWERED BY ITS OWN
DEVELOPMENT CONTROLLER**

REEF MONITORING DEPLOYMENT

