boat-bot

For research and education on the water

Small boat robot platform

Boat-bot is a research and educational robot built as a small catamaran of less than 2 kg. This small boat robot is a compact platform and has a modern and open architecture with all the components to make your own autonomous boat.

The control core is a Raspberry Pi interfacing GPS, IMU, motors and more. Easy remote connection with WiFi and BLE. Raspbian operating system based on Debian suitable for development.

You can use the boat-bot for many applications, for instance as a training field buoy, to accomplish measurements on the water, as a smart surface marker buoy, ...and many other water related activities.

- weight 2 kg. Diameter 40 cm
- 2 protected thrusters. Brushless motors and ESCs
- Rapsberry Pi ZeroWH with WiFi, Bluetooth4, uSD
- modern GPS
- IMU 9D with fusion
- Arduino companion chip
- battery management. Voltage and current. LiPo battery 4s (14.4 V), >60Wh. External charger
- speaker and other open buttons, LEDs and GPIO
- optional LORA or GSM communication

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