Backpackable Robot Boat for Sonar Surveys Outline Project Specification CS39440

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Project Description

"We have a number of low-cost "backpackable" polystyrene boats that are propelled by propellor and on-board batteries. One of these was used in Scotland with a radio-control system to look for submerged logs in upland lochs (see http://geophysicistatlarge.blogspot.co.uk/search/label/dendrochronology)?. This project aims to produce a more sophisticated on-board control system that can autonomously drive the boat around bodies of water collecting sonar data. The onboard system will require something like a RaspberryPi and sensors such as GPS and compass and the ability to control rudder servos and motors. Part of the project will be to develop a detailed specification and to select appropriate technologies (in consultation with me). Significant help will be available for the electronics and hardware parts of the project." blah blah?

Proposed Tasks

Deliverables

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