28.5.2019

ENG-A1002 - ARTS-ENG Project

TIDE FLOW INDICATOR

GROUP 30
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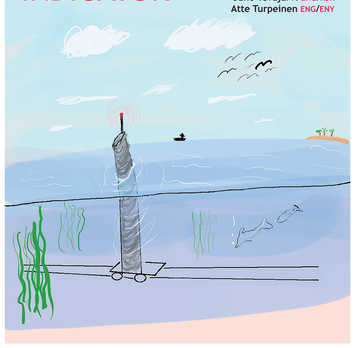
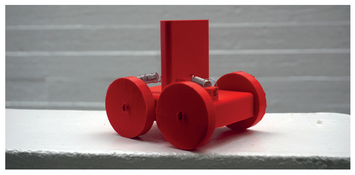
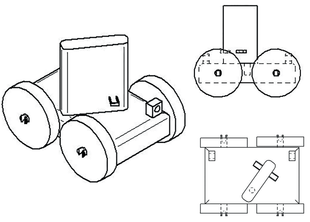


Tide can cause significant flows. These flows can be dangerous on public beaches especially for tourists as they might not be aware of them. The force of the tide flow is highly dependent of its location, but can speed up to 5 m/s.

The tide flow indicator shows the direction of the tide flow. This makes it possible for swimmers to see if the flow is pushing them away or towards the beach, which increases their safety.

The system consists of a wing mounted on a four wheel sleigh. The angle of the wing is changed by hydraulic jacks. The sleigh moves on a rail installed to the bottom of the ocean, parallel to the beachline. A LED signal beacon is installed on the tip of the wing, increasing visibility and preventing boats from crashing to the system during the night. The color of the LED is different during high tide and low tide.





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