

# JAWS

## ICE TRAVEL MADE SAFE

### Ultrasonic Transducer

Using an ultrasonic transducer, JAWS is able to measure the thickness of ice and determine whether if the ice will be safe to walk on.

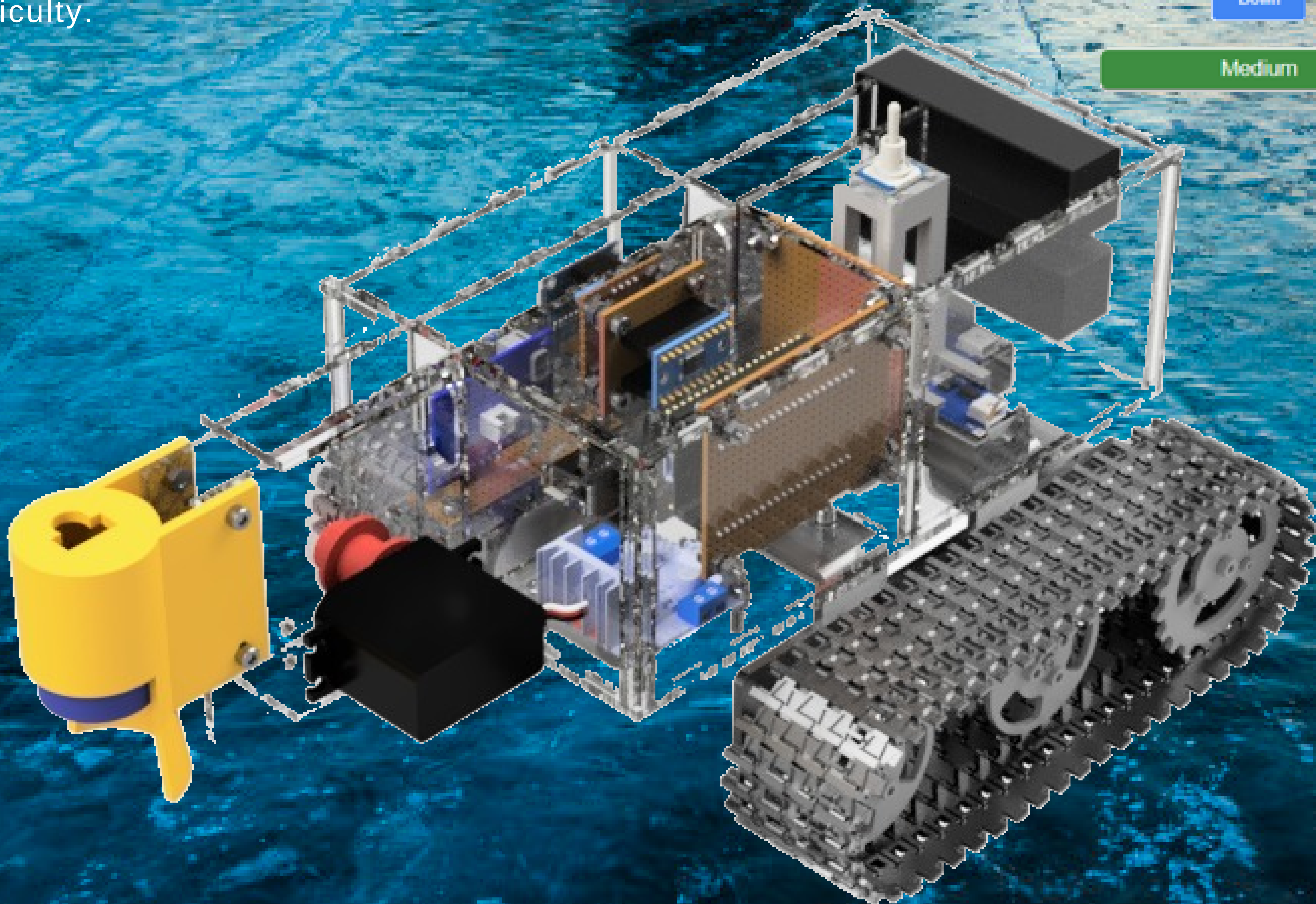
#### Single Element Transducer



$$\text{Distance} = ((T1+T2) * \text{Speed of Sound in Ice}) / 2$$

### Tracks wheels

Utilising tracks, JAWS is able to travel on ice without any slippage or difficulty.



### HTML Control

- Remote Control
- Depth displayed on OLED display and HTML page
- Selectable mediums for flexibility

#### JAWS WIFI Controller

JAWS state:Stopped

Depth:60.20 cm

Up

Left

Right

Backward

Stop

#### Sensor Control

Up

Stop

Down

Medium

Github Page:

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