Sailbot docs

# Hardware

There will be two pieces of programmable hardware, the Arduino and the pi

## Arduino

The Arduino is responsible for

* affecting the world

## Pi

The pi is responsible for

* Issuing commands to the Arduino
* perceiving the world
* Determining the course of the sailbot

# Command

## Pi to Arduino

|  |  |  |
| --- | --- | --- |
| Input | Regex of Input | Explanation |
| 0 | “0” | The Pi is requesting the value of the boom |
| 1 | “1” | The Pi is requesting the value of the rudder |
| 2-8 | “[2-8]” | These inputs haven’t been assigned a use yet |
| 9 | “9” | Reserved for determining if an error has occurred |

## Arduino to Pi

Flow Diagram of how the Pi and Arduino will communicate