www.MWFTR.com/VIPatHOWARD.html

The Bludger

A Drone Proposal

CONFIDENTIAL

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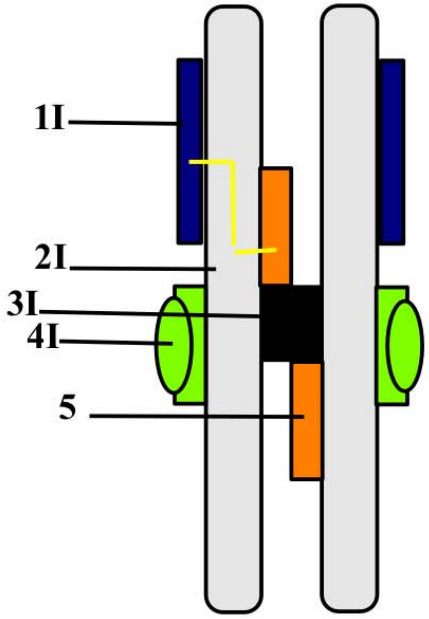
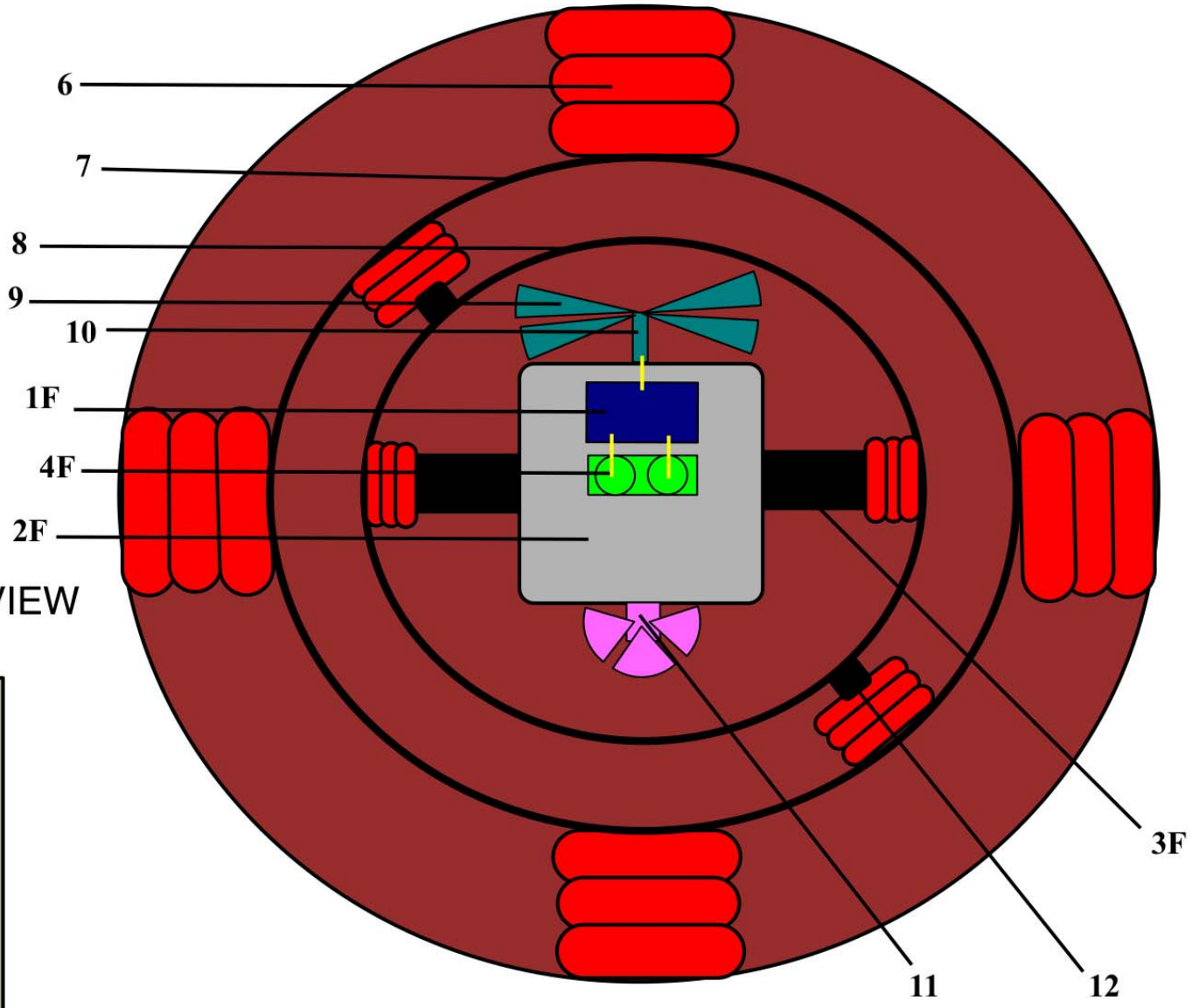
Using drone technology my goal for this project is to combine robotics and the Wizarding World of Harry Potter to bring to life one of the most memorable aspects of the series: the bludger

Conceptual Diagram



INTERIOR SIDE VIEW



FRONT VIEW

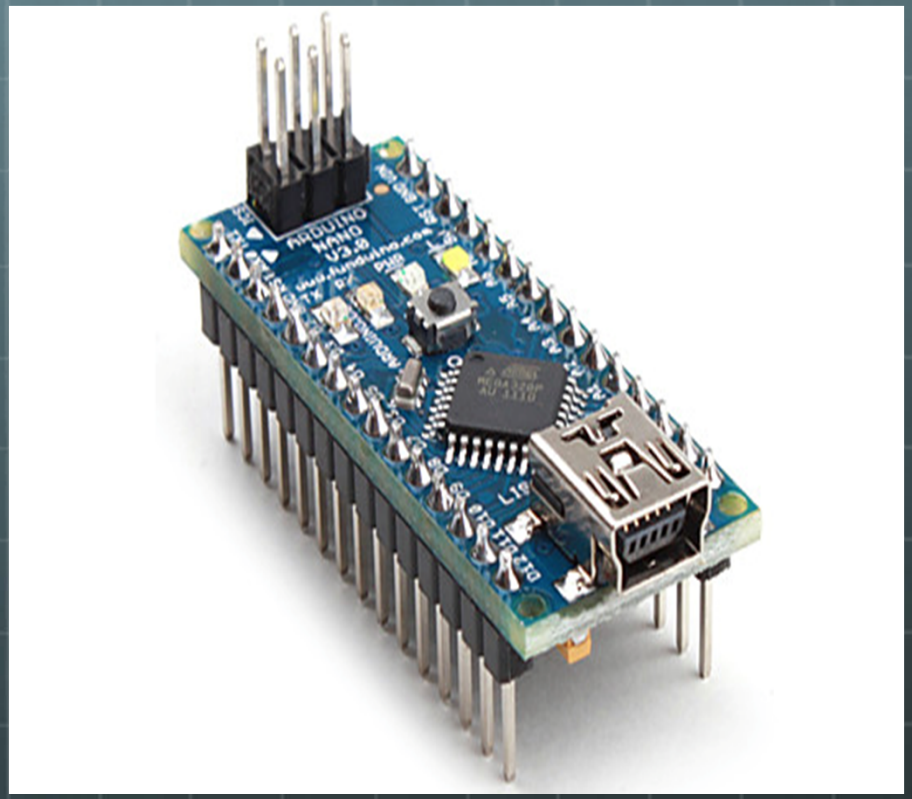
1I	Arduino ISV
1F	Arduino FV
2I	Platform ISV
2F	Platform FV
3I	Inner Rod ISV
3F	Inner Rod FV
4I	Distance Sensor ISV
4F	Distance Sensor FV
5	Battery
6	Shocks
7	Outer Protective Ring
8	Inner Protective Ring
9	Propeller
10	Propeller Rod
11	Stabilizer Mechanism
12	Ring Connect./ Shocks
	Wire Connections

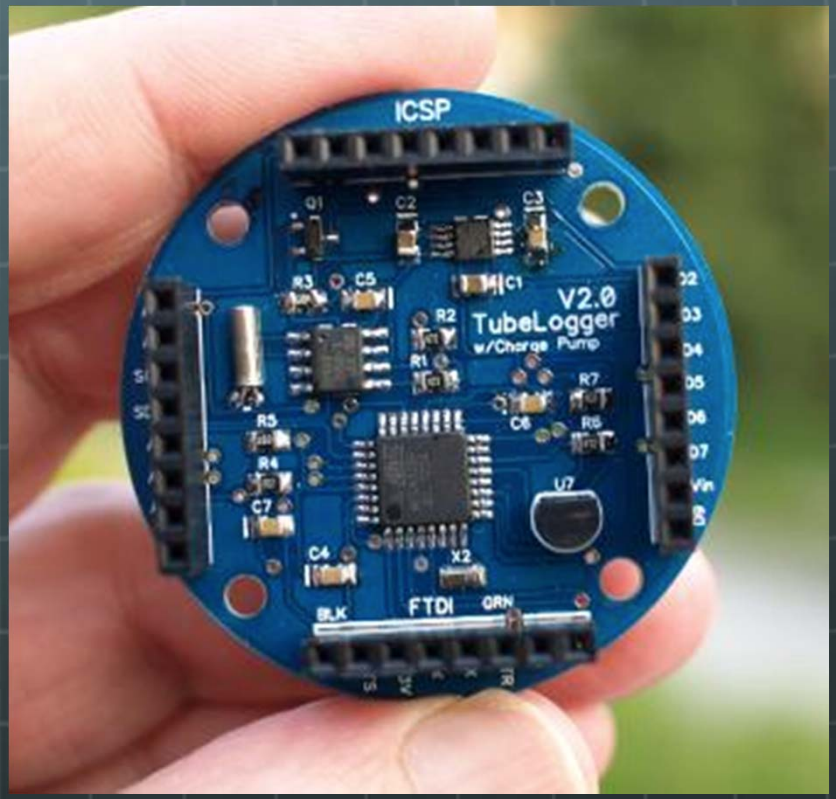
Exterior Body

In order to create the external spherical shape of the Bludger, I would need a team to build the external body as though they were constructing a spherical drone as indicated below

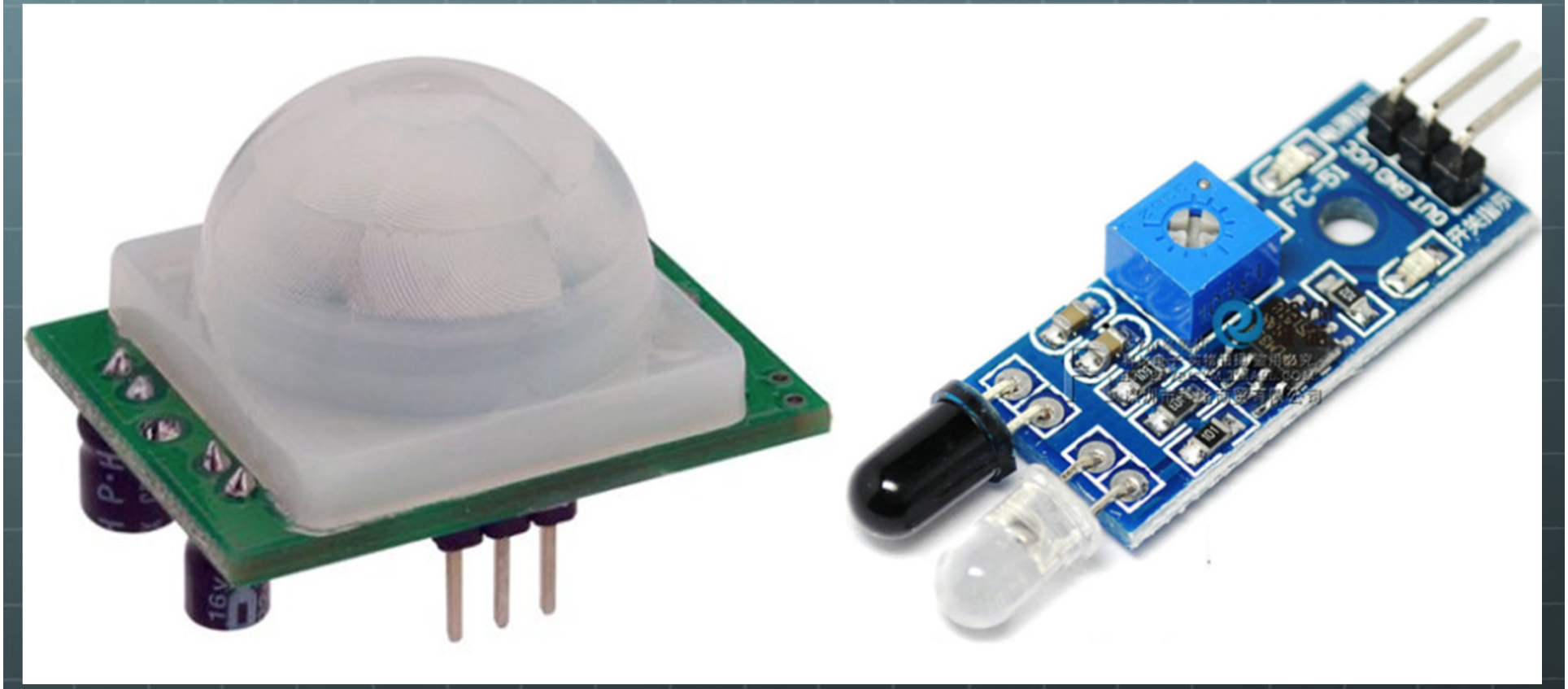
Interior Functions

For the software component of the Bludger, I believe that Arduino boards can be programmed to facilitate the basic functions of the Bludger such as turning it on and off as well as controlling various sensor functions

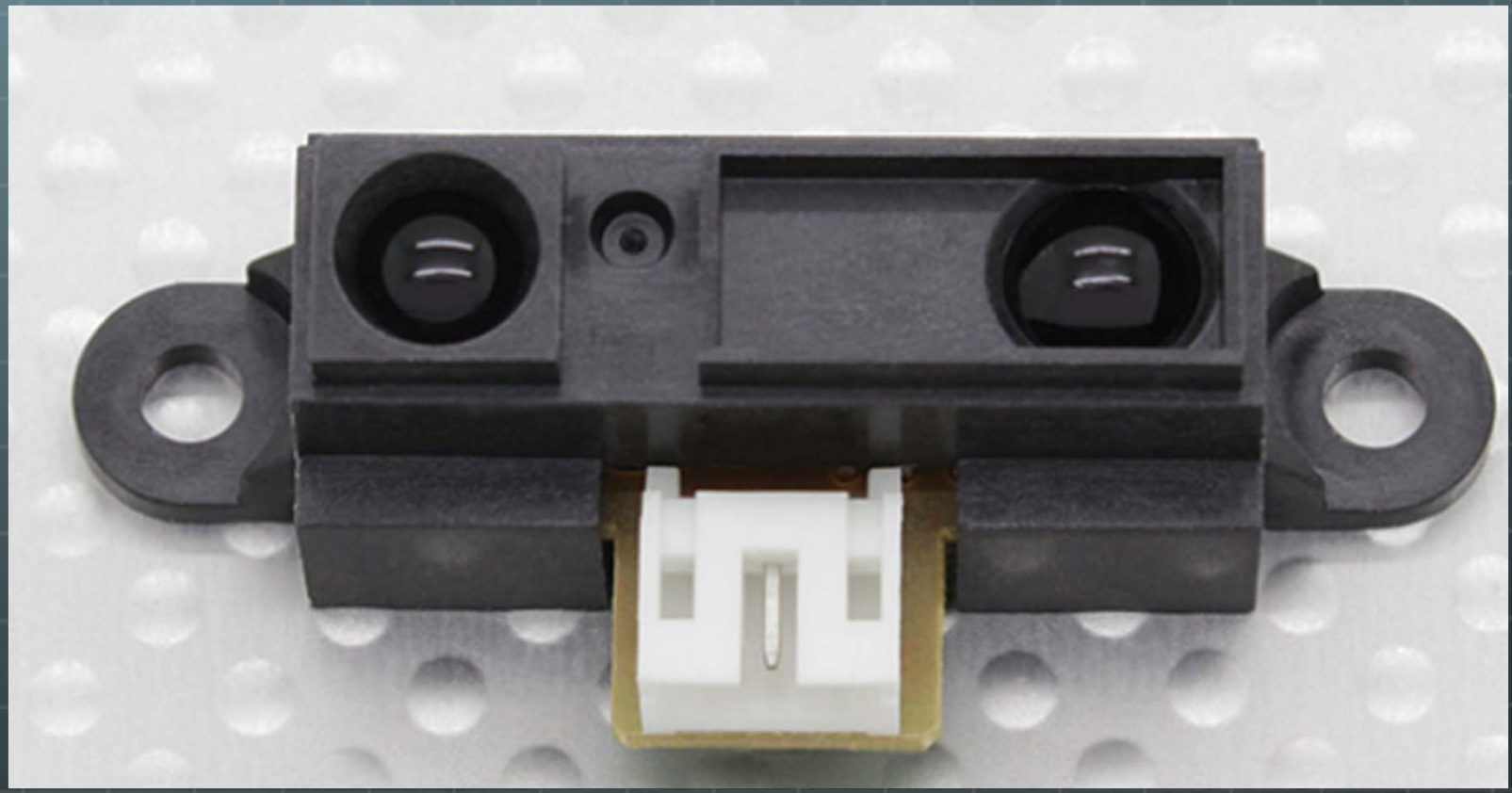




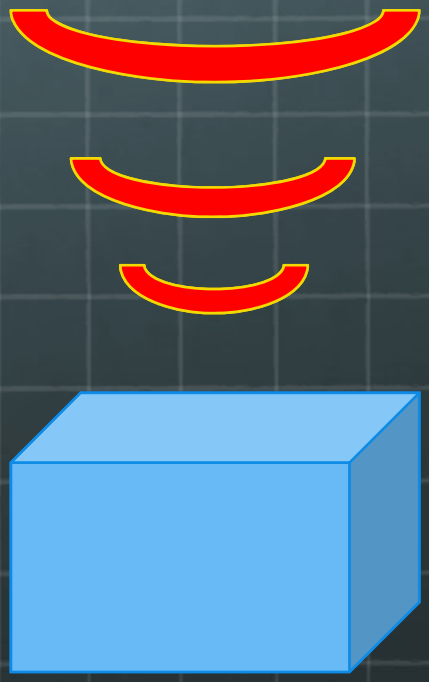
In order to infuse the Bludger with the “seeking” abilities seen in the movies, infrared motion sensors and obstacle detectors can be attached to the inner core of the spherical body



In order to prevent the Bludger from smacking into the ground, flying too high into the air, or going outside the parameters of the “quidditch field,” distance sensors can be programmed to assist the Bludger in changing direction as needed



The goal is to have the Bludger perform its functions in a mostly autonomous manner. The only non-autonomous aspect of the Bludger will be a return function, located on a base, that can be switched on at the will of the operator.



Similar Products

Gimball

Extra Features

Bludger Bat

Bludger Bat

How Fast The Bat Can Be Swung

The “Trampoline Effect”

The “Sweet Spot”

How Easy Can the Bat Break

Helmet

The Team

Team Member Attributes

Knowledgeable

Dedicated & Available

Impossible is Nothing

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