Pensacola Catholic High School Crubotics
Non-ROV Device
BCG-Float

Non-ROV (BCG Float) Description:

The buoyancy engine is housed via a custom built deploy module inside the mainframe of A.R.R.E. The buoyancy engine uses eight 12ml syringes that are moved up and down via a motor and screw system. Upward motion of the motor pours water out of the syringes and pulls the float upwards. Water is pushed out of the syringes into an outside bladder to control buoyancy. Water was chosen to be the hydraulic fluid of the Go-BCG float because it is environmentally safe.

Non-ROV (BCG Float) Electrical and Fluids

Safety Specifications

- 5 amp fuse
- Waterproof container,
- Onboard batteries (9V) are non-rechargeable
- Fluid is water and is self contained