Brother Rice Robotics

"Battling for a Bluer Tomorrow"

10001, S. Pulaski Ave, Chicago, IL, USA

NON-ROV SPEC SHEET

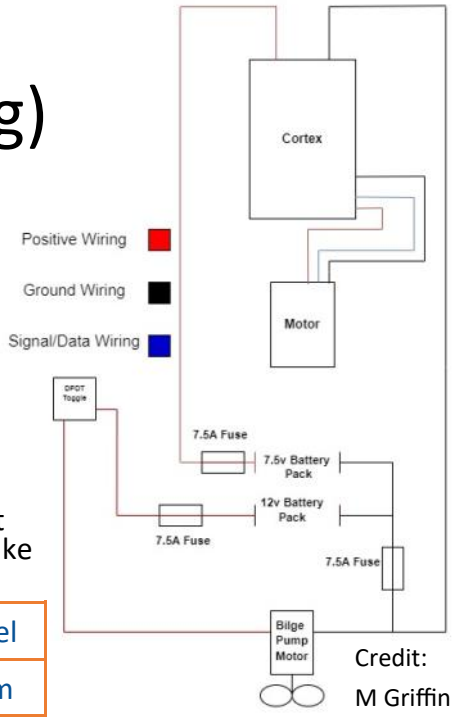
VESCO 1.0

V—Vertical (Profiling)
E—Environmental
S—Survey
C—Collecting
O—Omnibus

VESCO 1.0 is BR Robotics' first foray into vertical profiling float technology. We are proud of our progress and are excited to make additional innovations to this technology in future seasons!

Weight	Size (cm)	Cost (US)	Student Hours	Travel
15.6kg	97L x 18dia	$463	256	57km

VESCO 1.0 SID



Credit: M Griffin

Omnibus

VESCO 1.0 is an Omnibus as it can be configured to house any customer desired sensor array

Powered Descent

VECSO 1.0 is powered by a 12v 500GPH bilge pump motor. 8 D cell batteries provide the 12 volts needed to run the motor. The motor is controlled by a switch activated by a VEX motor & Cortex

Automatic Ascent and Easy Recovery

VESCO 1.0 is slightly positively buoyant meaning that after descent motor shutoff the float returns to the surface on its own. In the event of a malfunction or battery drain VESCO 1.0 will remain at the surface making recovery of the float easily accomplished by a surface vessel

Extended Battery Life

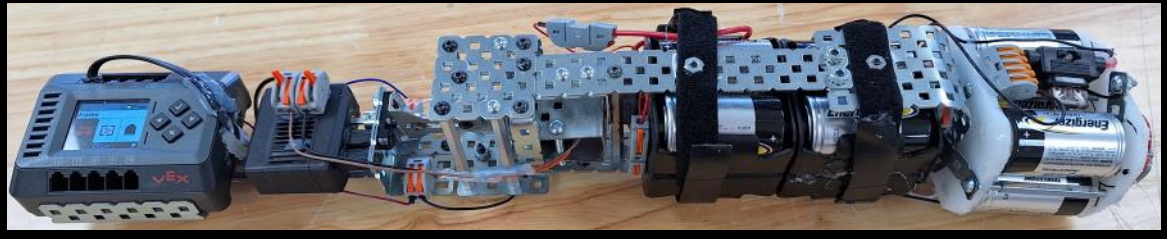
VESCO 1.0 only powers its descent which doubles its service life

Safety

VESCO 1.0 has three 7.5amp fuses, spherical IP20 rated thruster shrouding and an internal pressure relief system

VECSO 1.0 with case "cracked"

VESCO 1.0 inner workings



Photos Credit: N Scott