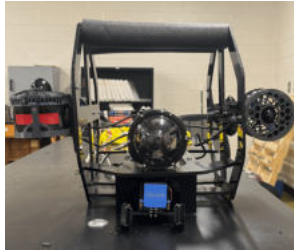


CARROLLTON HIGH SCHOOL



SPECS SHEET



Longshot 2.0



Venkata Koppireddy, Mason Scoville, Tanya Aggrawal, Christian Long, and William Haley Not pictured: Jake Preston (L to R)

9th Grade:	10th Grade:	11th Grade:
Christian Long: Co-pilot/CFO and Design Integrator (Returning Member)	Tanya Aggrawal: Marketing and Media Outreach (New Member)	Elicia Salgado: Government and Regulatory Affairs, Engagement Affairs (Returning Member)
William Haley: Fundraising and Testing (New Member)	Mason Scoville: R & D and ESG Research (New Member)	Venkata Koppireddy (V): CEO, and engineering (Returning Member)
		Jake Preston: Pilot and engineering (New Member)

Safety Features

- 25 amp fuse protection on power circuits (x2)
- All connections soldered and protected with heat shrink
- No exposed or loose wiring—everything routed and shielded
- Onboard kill switch for emergency shutoff and reboot

Specifications

- Height: 15 in (38.1 cm)
- Width: 16 in (40.6 cm)
- Length: 21 in (53.3 cm)
- Weight: 7 kg

Technical Features

- Modular octagonal design for motor and claw positioning
- Waterproof XT90 and Anderson Powerpole connector system
- 3D-printed motor guards for safety and component protection
- Four Blue Robotics T200 thrusters providing 5 degrees of movement
- Custom servo-powered claw centered beneath the brain for balance and visibility
- Blue Robotics clear electronics enclosure with heat-shrink sealed internal wiring
- Frame made from lightweight black plexiglass for strength and ease of fabrication

Special Features

- Octagonal layout enables precise motor and payload tool placement
- Reused plexiglass for sustainable construction
- Servo-based claw simplifies control while reducing power consumption and mechanical failure risk
- Tilting camera mount allows better viewing angles and task visibility
- Easily accessible, pit-stop style wiring layout inside enclosure for fast diagnostics

Company Specs

Trojan Triremes, Carrollton High School
Carrollton, Georgia; United States
Distance traveled to MATE Dauphin Island Regional-338 miles

ROV Specs

ROV Name: LongShot 2.0
Build Type: Newly built ROV
Time spent working on robot: 3 months (1095 hours)
Total Cost: \$3,377.48