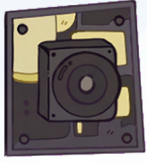


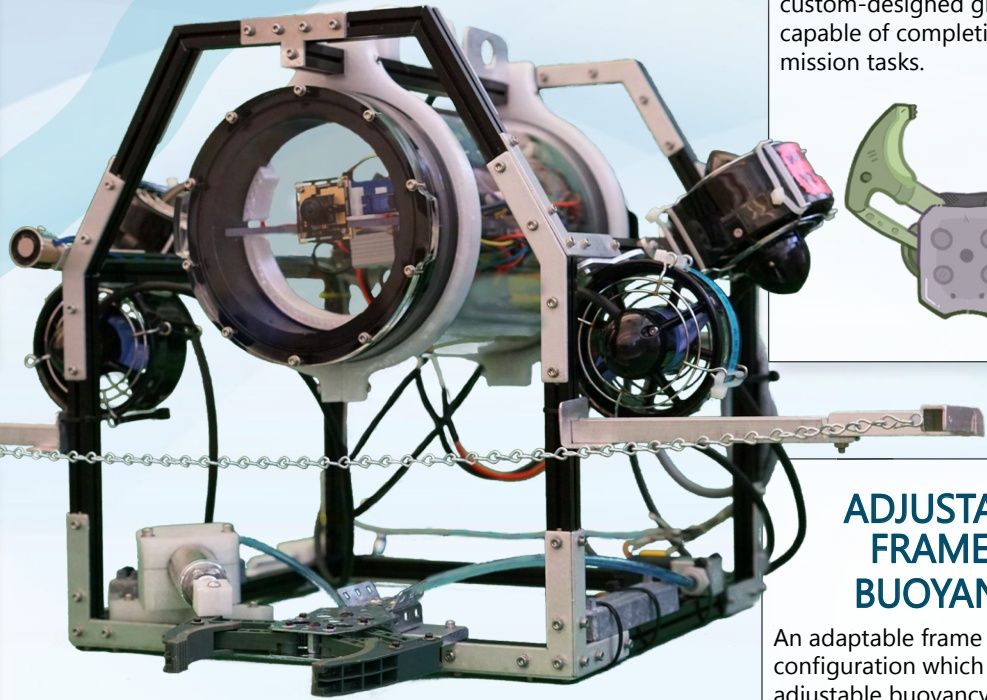
DIGITAL CAMERA SYSTEM & GUI

Advanced Digital Camera System allows for high quality video feeds and full software control of vision and image recognition systems.



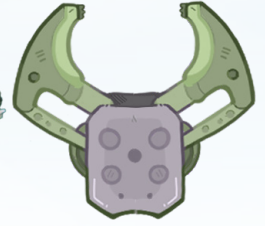
BELUGA

Brought to you by Geneseas.



PNEUMATIC GRIPPER

A pneumatically powered, custom-designed gripper, capable of completing a range of mission tasks.



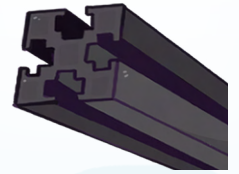
BUOYANCY ENGINE

A custom float separate from the ROV which is capable of autonomously completing two vertical profiles.



ADJUSTABLE FRAME & BUOYANCY

An adaptable frame for easy configuration which features an adjustable buoyancy system.



GENESEAS

ST. FRANCIS HIGH SCHOOL

SACRAMENTO, CA, USA

Distance traveled: 417 miles

SAFETY FEATURES:

SHEATHED TETHER

Beluga's sheathed tether protects the ROV Power, Pneumatics, Communications Lines, and team members operating the ROV.

CUSTOM HANDLES

Beluga features custom 3-D printed Polycarbonate handles to ensure safety during ROV launch and recovery.

EMERGENCY POWER OFF

Ensure Deck Crew safety with easy and efficient shutdown of the ROV.



COMPETITION TEAM MEMBERS:

Jaedyn Alford '22	Vision
Meredith Garcia '22	Tools Lead
Lauren Jones '22	CMO; Overall Software Lead
Emmy Asperger '23	Mechanical
Allie Dinh '23	Control Software Lead
Morgan Jones '23	CEO; Vision Lead
Norah Zhou '23	CFO; Electrical Lead
Alicia Del Toro '24	Electrical
Lauren Grindstaff '24	Safety; Mechanical Lead
Isa Gutierrez '24	Tools
Siena Marois '24	Software
Jianna Reyes '24	Software

CREW:

Sydney Goodall* '23; Sofia Stuck* '23; Ava Borchers* '24; Audrey Mayo* '24; Emily Murray* '24; Isabella Ramos* '25; Alyssa Renomeron* '25; Gabrielle Rosario* '25; Kinnera Tirumala* '25

*New Members ◻ Returning MATE Competition Participants

COACHES:

Kitara Crain; Maurice Velandia; Marcus Grindstaff



Total Cost of ROV: \$6,302.10

Size: 648 x 558 x 367 mm

Cumulative student build & design hours: 4620hrs

Weight: 8.8 Kg