

Latin Sea Lion: Ranger

Company Specs

Company Name: Latin Sea Lions: Ranger

School Name: Washington Latin Public Charter School

Home: Washington, D.C.

History of MATE Competition Participation: Competed in Mid-Atlantic Regional Scout in 2019, 2022, 2023 seasons, and Navigator in 2023. Mid-Atlantic Regional Ranger in 2024 and 2025

Company Photo:



From Top left David Browne (Class of 2026)Engineering/ Lead Driver; Evan Darling (Class of 2026) Engineering; Sebastian Risso (Class of 2028) Design/ Engineering; Mira Soskis (Class of 2026) Chief Design Officer; Jaqueline Trayner (Class of 2028) Design; Nora Durcan (Class of 2026) Secretary; Imanuel Brandon (Class of 2027) Design/ Engineering; Max Arron (Class of 2025) Chief Executive Officer; Max Simpson (Class of 2026) Marketing and Design; Seamus Sacks (Class of 2026) Chief Financial Officer; Preston Olander (Class of 2026) Marketing and Design. World Championship traveling team is: David, Evan, Sebastian, Mira, Jacqueline, Imanuel, and Max Aaron

Photo by Adam Keller

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ROV Specs

ROV Name: Scorpion 1.0

Total Cost: \$440 primarily for new motors that were not used, but also includes components for the claw and thermometer, most materials are recycled or repurposed from previous year builds.

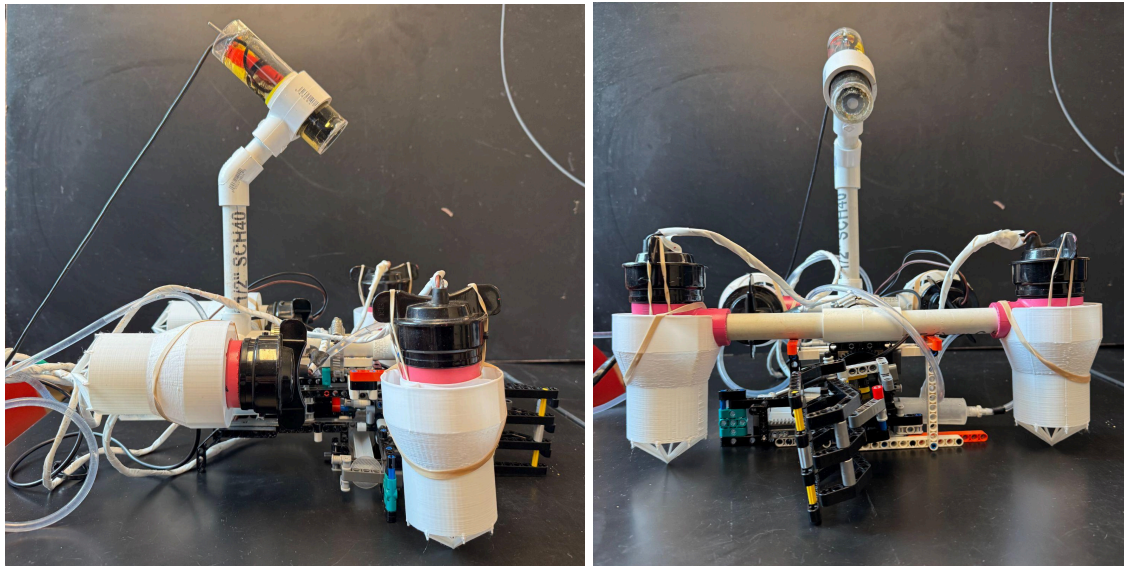
Size and Weight: Dimensions: 0.41m width x 0.33m length x 0.41m height, weight: 2.0kg

Total Student Hours to Build and Design the Robot: ~50 hours

Safety Features: Our ROV is large PVC arms, covered motors and covered wires. The covered motors and wires ensure that no electronics are ruined by water, this also serves to make sure that they aren't able to be cut easily by anything it may come across on its ocean adventures. Final robot includes 3D printed shrouds to protect the motors

Photo of ROV:

Final scorpion ROV Design (pre-shrouds) including: Hydraulic claw, 4 motors, and camera



Photos by Adam Keller