Team #726: The Mighty Coquis
Bonneville School - San Juan, Puerto Rico

Our second year participating in SeaPerch events.
GOAL: Compete for titles in the SeaPerch International Challenge.

Why is our SeaPerch design unique?
- **A compact and slim structure** was visualized to be similar to the past model but with reductions in size and cost. These components are important for the obstacle and mission courses for better effectiveness.
- **A flexible hook** will be placed in the front of Coquito to easily grab the objects that appear in the mission in many inventive ways while also giving stability when grabbing.
- **Motor placement** is important when modifying the structure of the ROV; its posterior motors allow for versatile horizontal movement, and its central motor adds another layer to Coquito’s dynamism.

SeaPerch Design Overview:
Coquito shows clear improvements from its predecessor, Federico, and all processes, breakthroughs, and experiments were made with the sole purpose of further optimizing the team’s ROV, creating a brilliant model stemming from the creativity and commitment of each member. Everyone feels a high level of satisfaction with Coquito, and the Mighty Coquis is excited to watch its performance in all SeaPerch competitions.

Lessons Learned:
From the mistakes we experienced, the team now knows to bring success from every test and experiment related to the ROV with patience, communication, and coordination. The Engineering Design Process helped the team innovate with the needed steps to integrate every change that was made to the model. The hard work and dedication to this project created great moments and memories in this 2023/24 SeaPerch season, and we wish to make even more by qualifying for the next year in Maryland!