

Team JABE

Cape Henlopen High School, Lewes, Delaware, United States

2 Years participating in SeaPerch

2 Times at the International SeaPerch Challenge



HS-STOCK

SEAPERCH DESIGN OVERVIEW:

Planning for Performance:
By utilizing detailed drawings, precise material selection, and clear building techniques, each iteration is meticulously planned and executed, laying the groundwork for a high-performing ROV.

Prioritized Innovation:
During structured brainstorming sessions, Team JABE pinpointed crucial areas for enhancement. Their strategic focus on attachments, frame size, and motor output reflects a deliberate approach aimed at optimizing speed and efficiency.

Testing and Refinement:
Team JABE goes beyond construction by actively testing each improvement. Through analyzing test results, they make informed decisions to refine their design for optimal performance.



OUR SEAPERCH IS UNIQUE BECAUSE:



Structured Innovation: Engaging in structured innovation, Team JABE approaches design hurdles by employing a thorough Engineering Design Process (EDP). This methodical approach guarantees a systematic exploration of enhancements, meticulous data analysis, and the making of well-informed decisions, marking a significant advancement from mere reliance on trial and error methods.



Prioritized Efficiency: With a keen emphasis on prioritizing efficiency, Team JABE's focus is unwavering and precise. Through a strategic approach that hones in on critical elements such as attachments, frame dimensions, and motor RPMs, they have successfully pinpointed the pivotal factors that serve as the driving force behind propelling their SeaPerch project towards triumph and success in the competition.



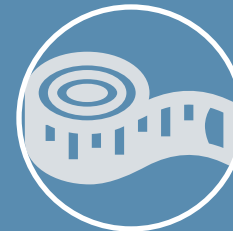
Lightweight Champions: Team JABE goes beyond mere construction to create a true speed machine. Through their dedication to a meticulously crafted CPVC frame that prioritizes lightweight design and strategic motor placement, the team showcases their profound comprehension of the nuances involved in reducing drag and enhancing agility, setting the stage for a high-performance SeaPerch project that aims for unparalleled success.



OUR BIGGEST TAKE-AWAYS THIS SEASON ARE:



Balancing Tasks: Trying to manage design, construction, testing, and operation all at once may have strained Team JABE. A structured approach to scheduling and task prioritization could boost efficiency.



Prioritization Pitfalls: Focusing on too many improvements at once can lead to missed deadlines. Clear prioritization and a phased approach would ensure critical tasks are completed on time.



Communication is Key: Open team communication can help spot time management issues early. Proactively developing strategies to address them will keep the project on track.

