

## News release



Everett Public Schools

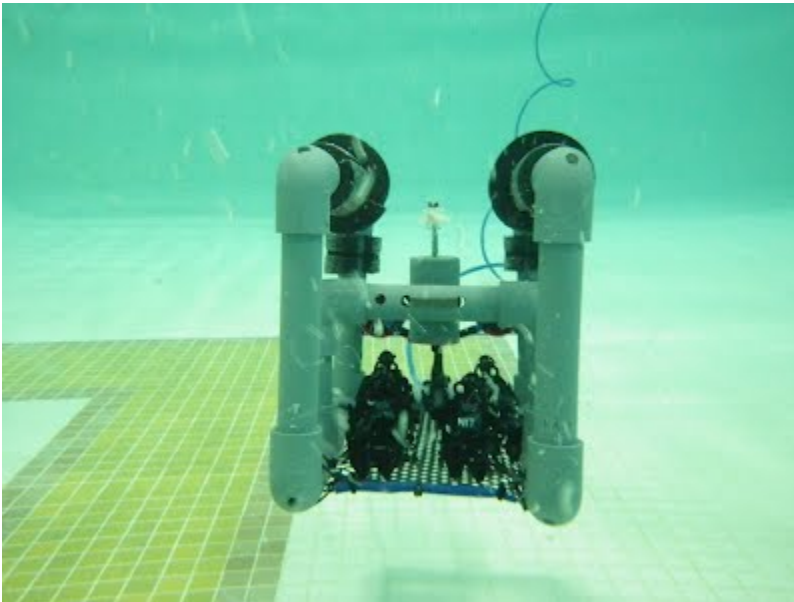
**May 31, 2013**

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### **Everett Public Schools Navy JROTC Cadets test dive submersibles** *Students operate Remotely Operated Vehicles (ROV)*



Student Cadets attending the Everett High School Navy JROTC program just completed their *introduction to naval engineering* unit. For eight weeks, Naval Science 1 Cadets from Everett, Cascade and Jackson High schools studied naval mechanical, materials, electrical and project management engineering.

At the end of the unit, all 13 teams gathered around the Everett YMCA of Snohomish County pool to test their Remotely Operated Vehicles (ROV) in watery action – the most highly anticipated part of the study unit. With the help and support of the Naval Station Everett Fleet Diving Detachment, the Cadet's ROVs operated well.

*Underwater remotely operated vehicle tested by the NJROTC cadets are one example of the hands-on **Science, Technology, Engineering and Math (STEM)** learning experiences Everett Public Schools is infusing across student curriculum and in all grades, K-12. (Photo by Cadet Petty Officer 1<sup>st</sup> Class Angelina Cons EHS NJROTC unit Public Affairs Officer)*

Gunnery Sergeant Dan Boudreau USMC (Retired), Naval Science Instructor described the poolside action. “Three blasts of a submarine diving claxon sounded, heralding the start of the operational test dives!” Cadets conducted function checks at

the first station which gave each cadet in a SeaPerch crew a chance at the operational controls.

“In the second station, Cadets conducted drag races against another [SeaPerch](#) crew ROVs both on and below the surface to learn about the different operating characteristics of each ROV.

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“At this point, during sustained operations at speed and ‘on step,’ three engineering casualties developed. One SeaPerch starboard engine failed while the other two engines kept functioning. This caused consternation and critical thinking among the crew! The two other casualties were from two separate SeaPerch ROVs, which each lost a propeller. Luckily, the Navy divers were able to salvage the propellers and lock nuts that had held the propellers in place, so those crews were able to resume and complete the operational test dives.”



More information and more photos of the dive tests and of the Cadets building the ROV are [online](#).

Boudreau noted that the cadet learning experience is made possible by the [SeaPerch](#) Program which is sponsored by the Office of Naval Research (ONR) and managed by the Association of Unmanned Vehicle Systems International (AUVSI) Foundation. He also thanked the NJROTC Booster Club for their support for the activity, which included some funding.

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