

BeaverAUV is a diverse group of Beaver Country Day School students who use the creation of an AUV as a pathway for hands-on learning of robotics. Our team is comprised of 16 team members with varieties of backgrounds, interests, ages, and skill levels. Through the creation of an AUV, our team learns technical skills such as mechanical engineering, electrical engineering, and computer science, but also other skills such as teamwork and perseverance. These fields must all be combined and managed in order to be successful throughout the process of designing, building, and testing. Adapting was also increasingly important as we learned by iterating, failing, and trying new things. Our excitement and passion for the topic and content has pushed us to grow as a team and individually. This year was certainly a learning process as both of our founding members graduated and moved on to college. Through this adversity comes growth. As a new wave of members join the team, we find that knowledge is passed down from older members to the new members, creating an atmosphere of learning and education that allows older members to be both essential members of the team as well as teachers. The sub has been significantly simplified in the past year. In result, these simplifications allow the AUV to run more efficiently and be programmed with greater ease. Also, with this simplification, more modules can be added into the new found space within the AUV. With these improvements, we hope that our AUV can perform better and unlock future improvements.