

## **AVBotz Bio**

AVBotz is a team of passionate high school students from Amador Valley High School in Pleasanton, CA. We have competed in RoboSub since 1999 and are one of the few high school teams who participate in this competition. The club is open to any student that demonstrates interest in robotics and a willingness to learn, garnering a reputation for turning aspiring young students into competent engineers and computer scientists. Our team includes over 40 students encompassing 4 subdivisions: Business, Electrical, Mechanical, and Software. In RoboSub 2016, we unveiled Marlin, our newest submarine. Recognizing mistakes of the past two years after the debut of Marlin, this year we have focused on enhancing the processing power aboard our submarine. From the addition of a DVL to new Machine Learning algorithms using a GPU, this processing power opened up the capability of Marlin to complete this year's new and more complicated tasks. With the most powerful vehicle in the club history, this year has been all about perfecting Marlin's capability and expanding Marlin to adapt to the new competition rules. This year, AVBotz is seeking to regain the past glory of placing in finals at Robosub 2018.