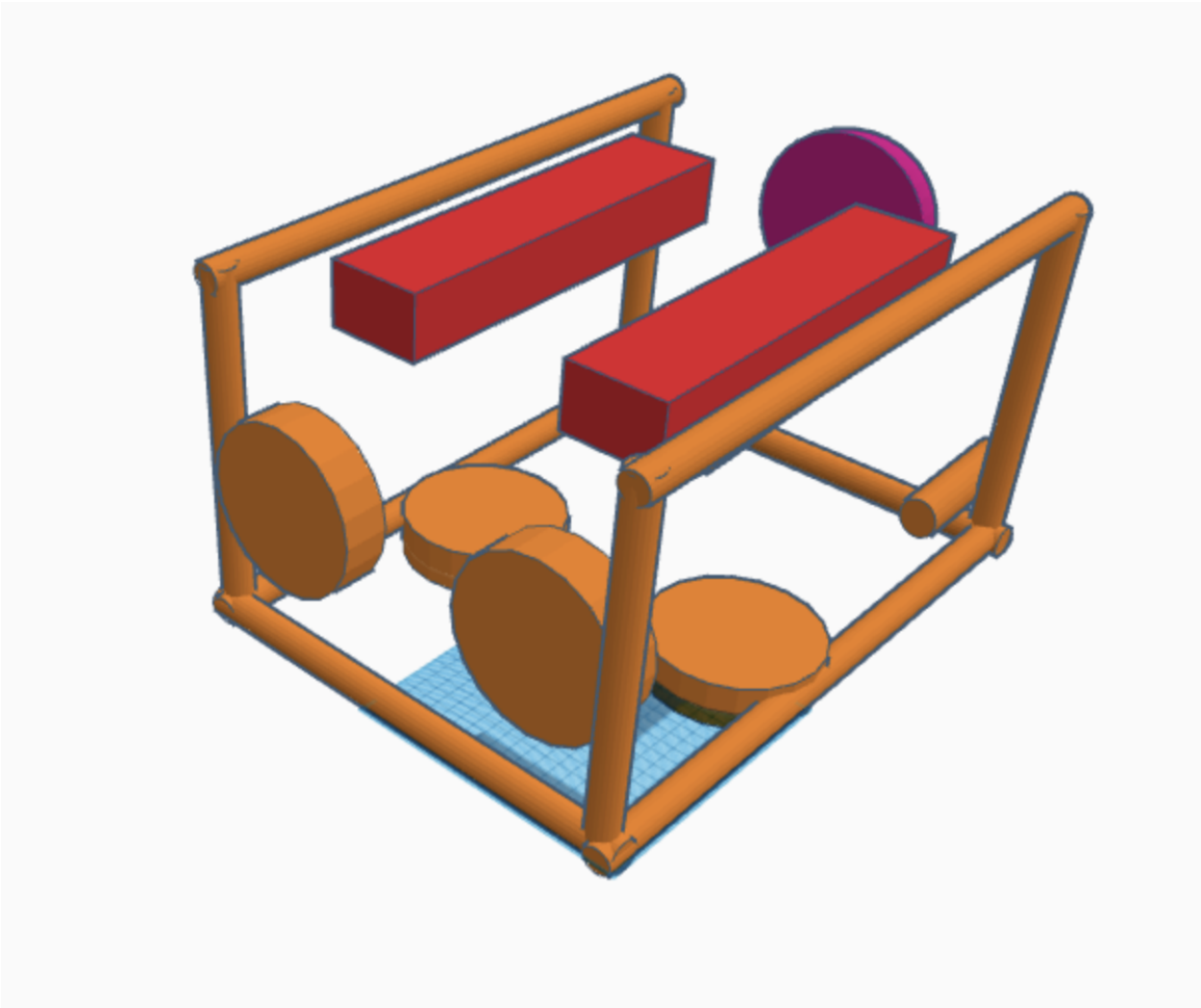

As a first time competitor, our main goal is to spectate the event and complete the documentation. Our team struggled to create a design especially since many of us are inexperienced and have never attended this competition before. We did not have enough time to physically build and test the robot as we have not enough time to build one but we have our idea to present. Our submarine (AUV) is a standard frame submarine so that it is easy to adjust and move parts around. This frame will consist of PVC pipes which are the orange cylinders in the diagram above. We will have 4 thrusters, represented by the orange discs, two pointing forward that operate separately so that it is maneuverable, another two thrusters will be pointing down to help push the submarine upward and downward. Our submarine will have a neutral buoyancy so that the position of the submarine can be easily controlled by the thrusters. The red rectangular prisms represent the battery pack and the purple hemisphere is the camera which will aid our robot to “see” so it can move around and complete tasks. We will have various electrical components in a water tight container which will run commands as our CPU. Our idea is still very rough but it is our general plan to finish the robot after the RoboSub competition. The

competition this year will help us gain insight to what an AUV should look like as well as how other teams made their AUV. This year will aid us to compete in next year's competition as we hope to have a full robot by then.