

RoboSub Senior Design Schedule

Goals

The main goals for the 2019 RoboSub project are to reduce the weight and size of the sub's frame and reduce the amount of space taken up by the electronics system. Last year's project will be used as a reference for these tasks. The weight of last year's submarine is 98lbs, and we hope to reduce this to less than 85lbs. For the electronics system, we want a custom made dc-dc converter circuit board that has multiple voltage outputs, a custom servo control board, and a hydrophone control board. We hope that everyone will be dedicated to the project and will choose to attend the competition with the team next July!

Fall Semester

Week 3 (Sep 2-8)	Learn about the project
Week 4 (Sep 9-15)	Learn about the project
Week 5 (Sep 16-22)	Plan frame/hull weight reduction, review old circuit boards and electrical interface
Week 6 (Sep 23-29)	Plan frame/hull weight reduction, research sensors
Week 7 (Sep 30-Oct 6)	Plan frame/hull weight reduction, work on power distribution board schematic
Week 8 (Oct 7-13)	Begin SolidWorks sub model, work on power distribution board schematic
Week 9 (Oct 14-20)	SolidWorks sub design, power distribution board CAD/breadboard testing
Week 10 (Oct 21-27)	SolidWorks sub design, work on servo board schematic
Week 11 (Oct 28-Nov 3)	SolidWorks sub design, work on servo board schematic
Week 12 (Nov 4-10)	Finish sub CAD model, servo board CAD/breadboard testing
Week 13 (Nov 11-17)	Buy materials, research manufacturing costs, research electronic components/prices
Week 14 (Nov 25-Dec 1)	Send out parts to be manufactured, order boards and components
Week 15 (Dec 2-8)	Study :)