**Power Distribution Team Schedule**

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| **Goals** |

The goal of the power distribution team is to create a circuit board that has all the necessary output power values for the components requiring power on the sub. These include: 6 thrusters, 4 hydrophones, 10 servos, a LattePanda development board, and 3 Arduino boards. We have one new 10000mAh multistar battery and can purchase another or a different battery if necessary. More information is at the bottom of the document.

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| **Winter** |

Week 1 (Dec 17-23) Find specs for all sub components needing power

Week 2 (Dec 24-30) Work on schematic

Week 3 (Dec 31-Jan 6) Work on schematic

Week 4 (Jan 7-13) PCB design (try to minimize space)

Week 5 (Jan 14-20)

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| **Spring** |

Week 1 (Jan 21-27) Order power distribution board components

Week 2 (Jan 28-Feb 3) Power distribution board done, place order.

Week 3 (Feb 4-10) Solder components to board, work on wiring

Week 4 (Feb 11-17) Test electrical system with all components and power distribution board. Make adjustments as necessary

Week 5 (Feb 18-24) **Have a test-ready vehicle (assemble everything)**

Week 6 (Feb 25-Mar 3)

Week 7 (Mar 4-10) Second pool test: image collecting, testing electronic systems underwater

Week 8 (Mar 11-17) Tweaking electrical systems

Week 9 (Mar 18-24)

Week 10 (Mar 25-31)

Spring Break (Apr 1-7) Wiring weapons systems

Week 11 (Apr 8-14)

Week 12 (Apr 15-21)

Week 13 (Apr 22-28)

Week 14 (Apr 29-May 5)

Week 15 (May 6-12)

Links to everything the power distribution board needs to accommodate:

* 6 BlueRobotics T200 Thrusters (power info under“technical details”): <https://www.bluerobotics.com/store/thrusters/t100-t200-thrusters/t200-thruster/>
* 1 LattePanda 4GB/64GB Windows 10 Development Board (5V/2A): <https://www.lattepanda.com/products/3.html>
* 4 Aquarian Audio Hydrophones: <http://www.aquarianaudio.com/AqAudDocs/H1a_manual.pdf>
* 10 Servos
* 2 Arduino Unos (lights/servos, another just in case)
* 1 Arduino Mega (navigation system)