Preliminary PCB Spin

This week I completed the power schematic and PCB layout that will be implemented on the Avionics System PCB. In order to stress test this layout, I am requesting that we have the PCB with only the power electronics onboard manufactured through PCBMinions, a manufacturer that works through UCSB Gateway and is known for fast spin times and cheap PCBs.

The power system on this PCB is one of the most important features, since any overshoot or undershoot on the supply voltage can cause serious damage to other components on the PCB. The whole Avionics PCB assembly will cost upwards of $600, whereas the total cost of the test power board will be $70. This short-term investment to ensure the reliability of our power PCB design is absolutely worth the cost to avoid damage on the much more expensive, complete PCB.