Design Project 2

This design project was different from project 1 in that we were given a goal by a company which had clear standards we had to fulfill. That company was Lockheed Martin.

We were given the choice of USB bracket, heat sink, or UAV suspension system, and my group settled for a USB bracket. The objectives we had to fulfill were that it had to withstand the takeoff and landing stress, it wouldn’t overheat, and that it could stack 3 times high and have space for 7 USB brackets.

We toyed with the idea of having a water cooling system, gel for the suspension systems, and drawing inspiration from lego bricks in designing the stackability. In the end however, we landed on our own design, which would use washers for suspension, air cooling for the cooling system and multiple poles on which the brackets could slide down, securing them in place. We deigned to use the more simplistic methods of achieving the goals as they would have less of a
chance of failing. You wouldn’t want water anywhere near your fighter jet circuits not would you?

Designing something from military application was short to say, amazing, having grown up playing sci-fi games and looking forward to designing technologies to be used in such situations. This project great as well, although giving us a little more background such as what current technologies were being used for suspension would’ve been nice. I suppose that was part of the research you had to do however. On overall, great project.