Design Project II

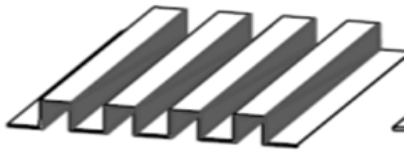
- **Mission Statement:**

  The amount of heat generated from the electronics in a computer can be very damaging to the internals of a computer. The easiest way to dissipate some of this heat is through heat exchangers, but when evaluating the use of a heat exchanger, you must also consider the which other parameters can be restrictive. Due to these other constraints, our group chose to start our research with the parameters of a heat exchangers that could interfere with the restrictions we were given. This gave us the opportunity to lay the basic foundation for our heat exchanger in choosing the type we would be using. After this, our second goal was to find out which design of this type of heat exchanger would make ours better than theirs. We were able to go through the different designs of heat exchangers to see which one could fit our/ Lockheed Martin's needs the best.

- **Design:**

  We chose to do our design by shifting the rectangular design, which shifts the airflow. By shifting the airflow, heat is much less likely to get caught up in the design, and will flow evenly and efficiently. There were problems with the current heat exchanger given to us, and that is why we had to change the design, to make the flow of heat smooth.

- **Before:**



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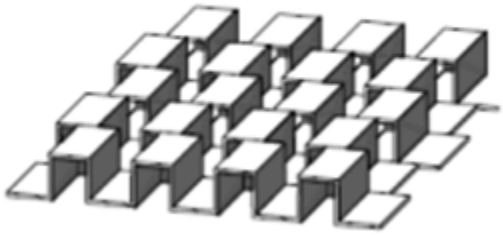
- **After:**