

Air Hockey Table

Milo + Kat

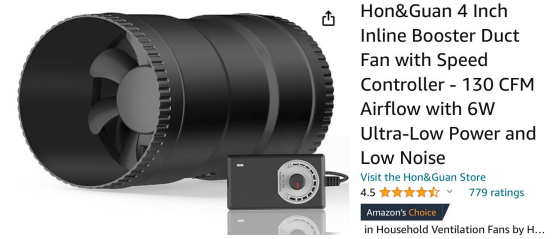
Making an Air Hockey Table

Milo came up with the idea to build an air hockey table for the second IMPP semester but Kat was concerned about the time restrictions. After some consulting with Mr. Josh, we found that it was maybe possible to complete the entire table in only one semester. And began researching and planning the steps.



AIR

When starting our project, the first thing we tried to figure out was how to pump the air to lift the puck. Our first thought was to use an old vacuum but we weren't sure if it would supply enough air. We got help from Mr. Viktor to learn about pressure and calculate how strong a fan we needed. Eventually, we settled on a 130 CFM (cubic feet per minute) inline blower to power our air hockey table as it fit our calculations and was fairly quiet.



JOINTS



To make sure our air hockey table was strong, we learned how to make joints such as rabbets and dadoes. We practiced chiseling them and cutting them by hand and got tablesaw training to assist with the final joints.

2,065 HOLES

For the playing surface of the table we used an old whiteboard, but whiteboards don't have holes so for the air to go through. We spent some extra time and got some help from friends to drill the holes needed. The holes were spaced 1' apart and were 1/16" in diameter.

- The air hockey table is 5' x 3', making the total hole count 2,065
- It took 2 sessions with four people to drill all the holes
- We broke 3 drill bits in the process

A HOME FOR THE TABLE

Because neither of us had intended on keeping the air hockey table, we decided to try and find a home for it at Acera. After talking with teachers and doing some measurements, we were able to convince Mr. Bob and Ms. Ruma that it would be a good idea to replace the current table in the back left Room 2 breakout room with the finished air hockey table.