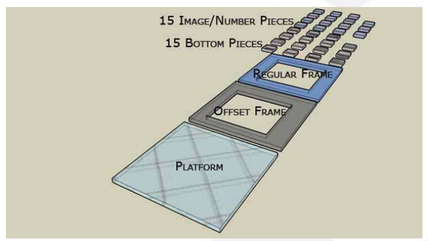
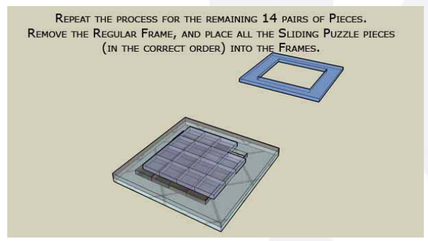
members

When first brainstorming the types of users this lab would have, we kept in mind the fact that this Fabrication Laboratory is associated with the Museum of Science and Industry. In those terms, we came to the conclusion that the members of the museum should have a different project base and set of guidelines. One of the perks of being a member of the museum would be to have access to the lab. And those who wanted to use of the lab for personal projects and prototyping could do so though becoming a member of the museum, and therefore supporting the program and museum as a whole. We want to bring education and the use of this lab together holistically with the museum's mission as an open source center of science education in Chicago.

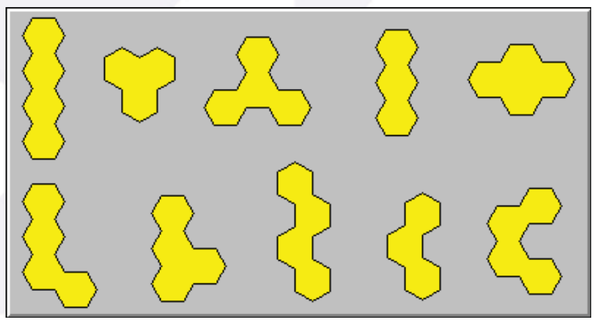
This user group will be those who come in to do simple projects, such as the ones we have designed, that introduce them to the software and equipment of the lab. After having completed the tutorials they would be free to come in at certain hours and work on whatever they wanted.



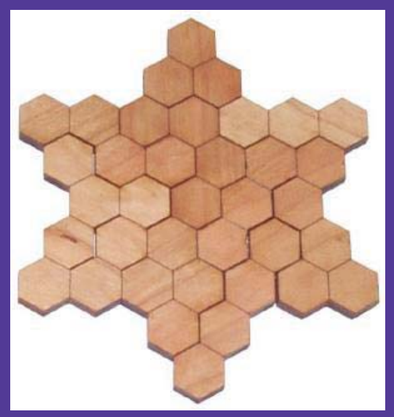


Pictures from Slide Puzzle Tutorial

- Two projects have been designed and written up as introductions to the laser cutter
- They are all 2D puzzles. The sliding puzzle is customizeable.



CAD file diagram of the Snowflake puzzle.



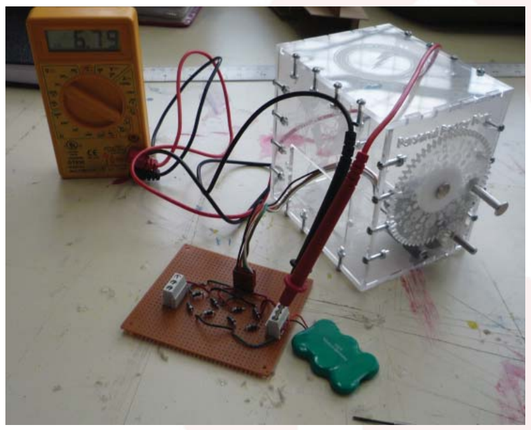
Future Work

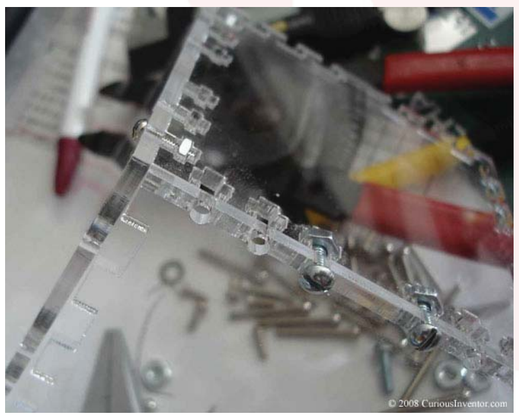
- Design and build a storage space for their materials
- Organize the lab with time slots a enable an open hour system in the lab
- Design an introduction project to the CNC machine , possibly furniture.
- More in-depth 3d projects

science achievers

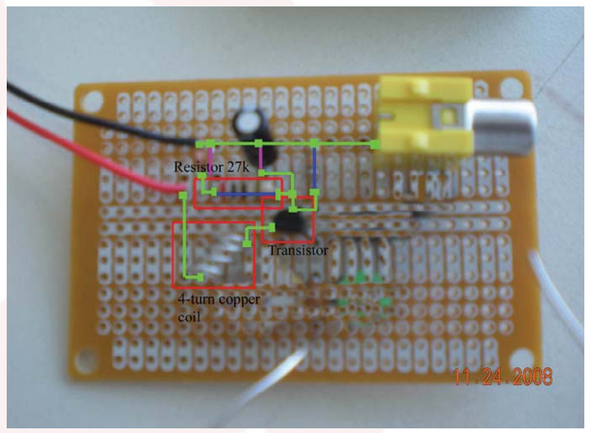
The science achievers are a group that is currently at work in the lab. They are a group of local high school students who have been accepted in the program for their high level of science and math achievement. They meet on Saturdays for a period of 10 weeks. Surveys were taken during a couple of their sessions to ascertain how they would like the program changed, if at all, and what types of projects they would like to work on, or have tutorials for. After hearing and reading their requests we started to think of different projects. They had a strong interest into the more robotic, and or electronic type projects. Projects teaching basic circuitry and which tie into their physics curriculum were chosen to be designed as tutorials for this group.

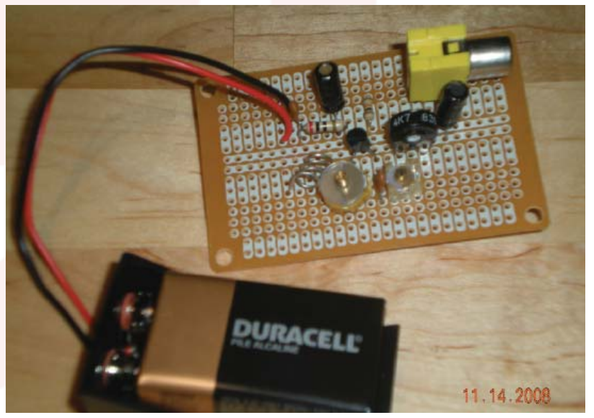
Personal Generator

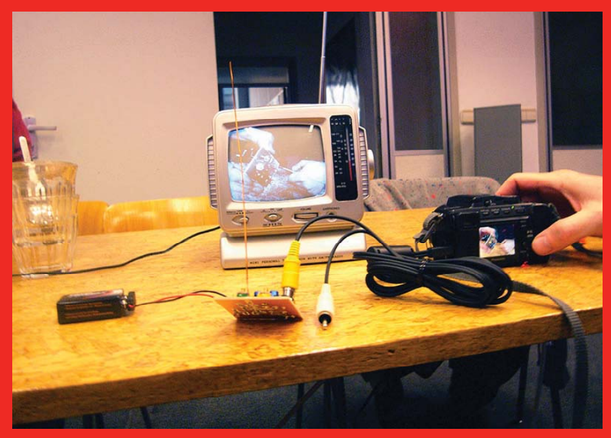


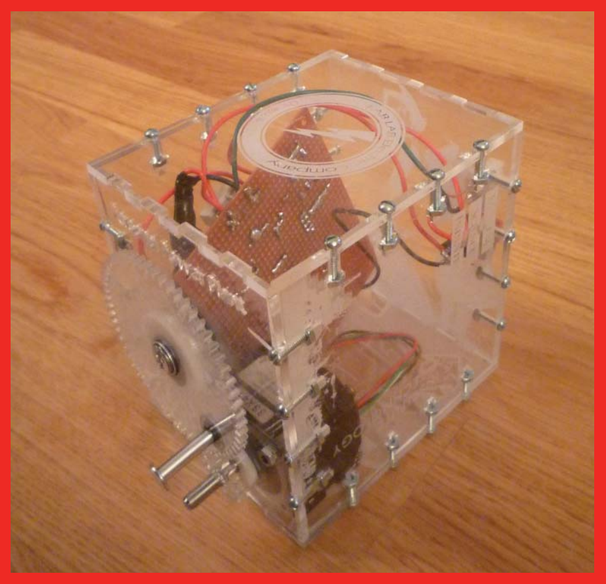


Micro TV Transmitter









Future Work

- Design and build a storage space for their materials
- Design and build a storage space for their materials
- CNC guitar project
- Lamp project