

FABLAB Use at Fox Valley Technical College

- Twenty + years ago was my defining point
- Designed a new vertical blind drive
- Inspected mold design prints

- Inspected mold during construction
- Called down for 1st shot
- Reached under the output



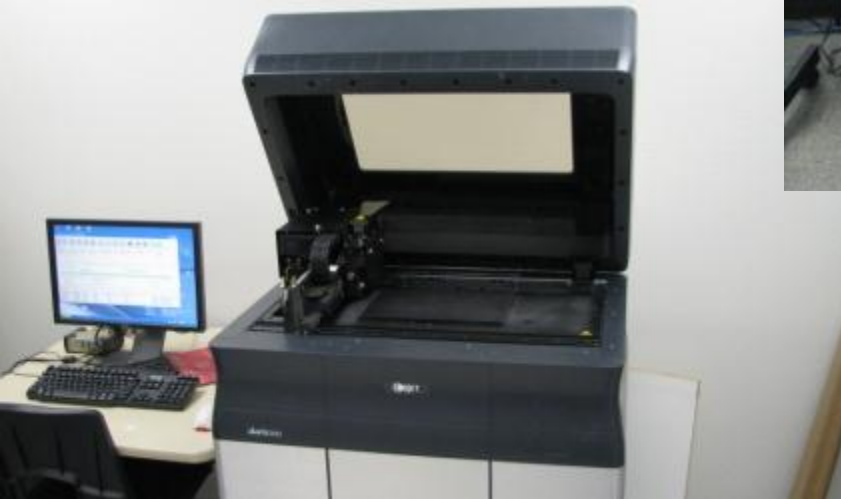
- Part looked exactly like how I rotated it in my mind
- Before 3D CAD solid modeling

- Wanted this feeling for my students
- Purchased a Fused Deposition Modeling machine for Mechanical Design in 2002

- Created a course – Intro to Design and Rapid Prototyping
- We make things

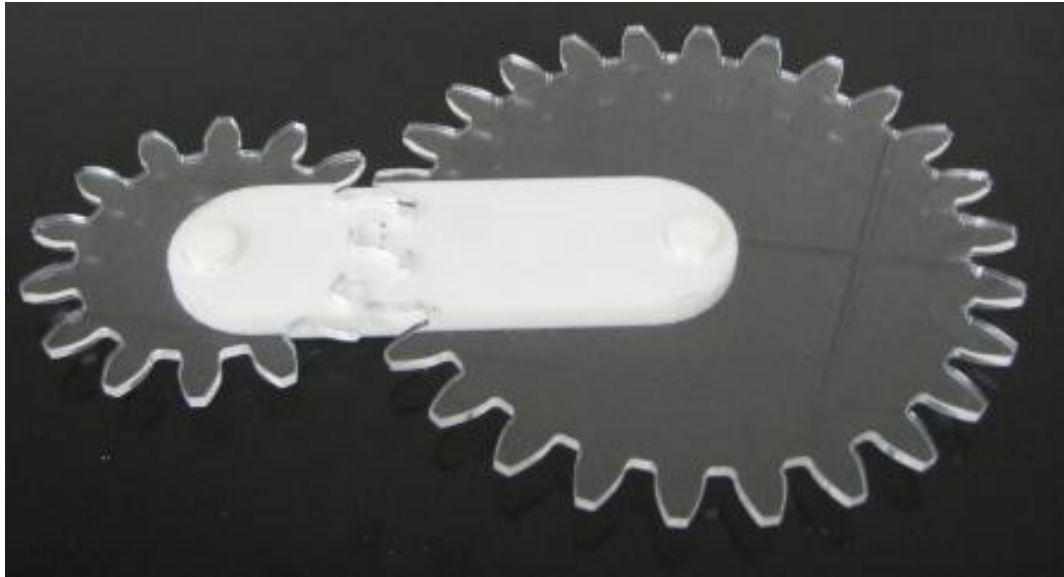
- 2006 Jerry Eyler read an article about Dr. Neil Gershenfeld from MIT
- 2007 We opened our FVTC FABLAB

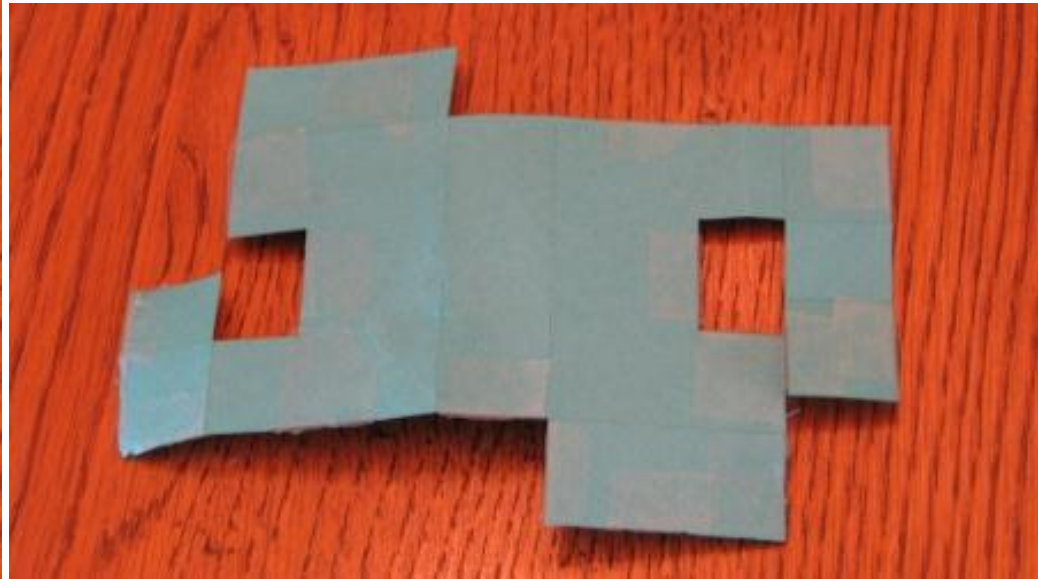
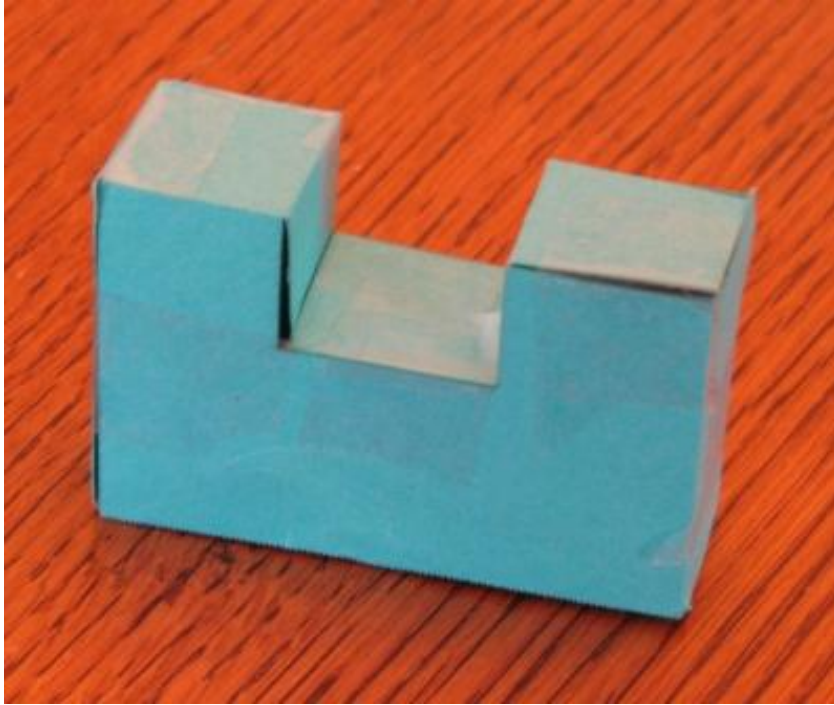




- Set up program to work with outside inventors
- Started using more equipment in my class and other classes

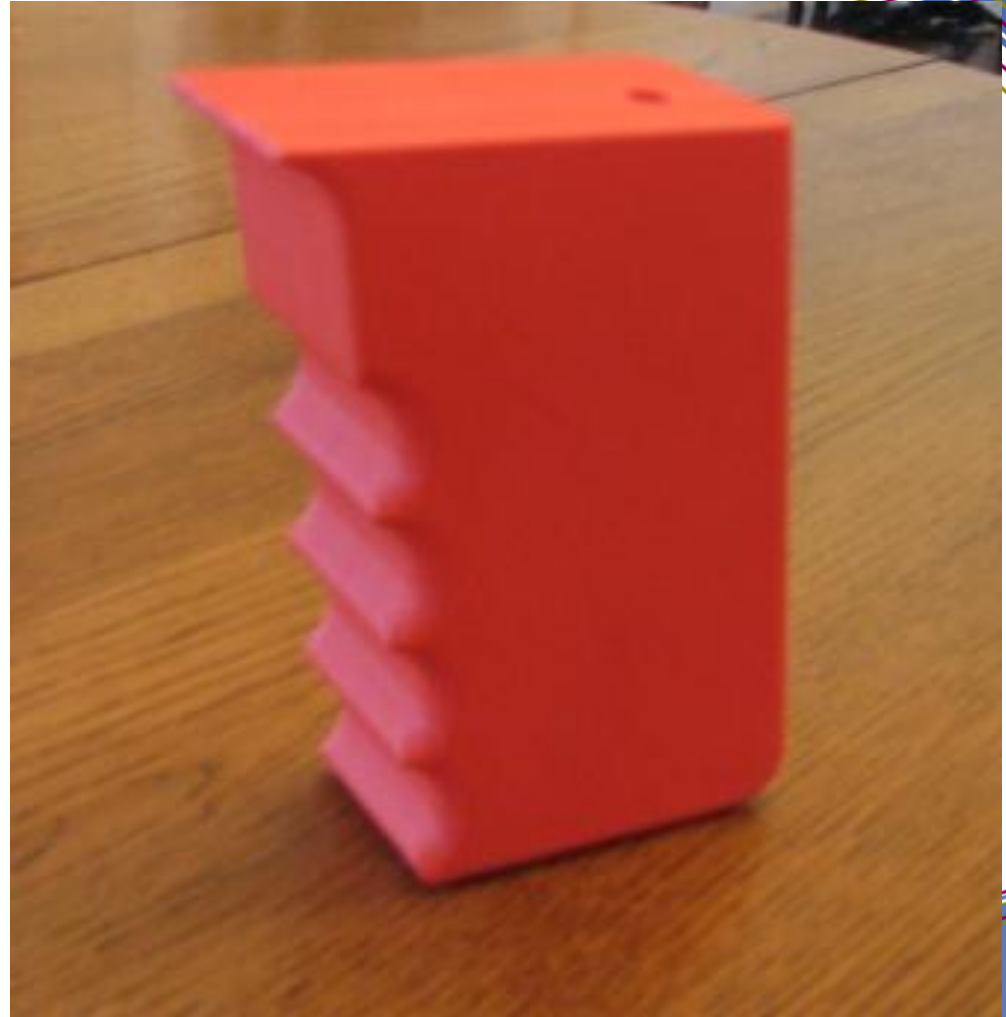
- Tech Drafting
 - Create Gears and Cams
 - Create Development Flats





- **Capstone Class—Design Problems**
 - Prototype their project
 - Test Fit and Function
 - Something for interviews

Snowball Gun Handle



Helped Team
Understand
The Need
For Re-design



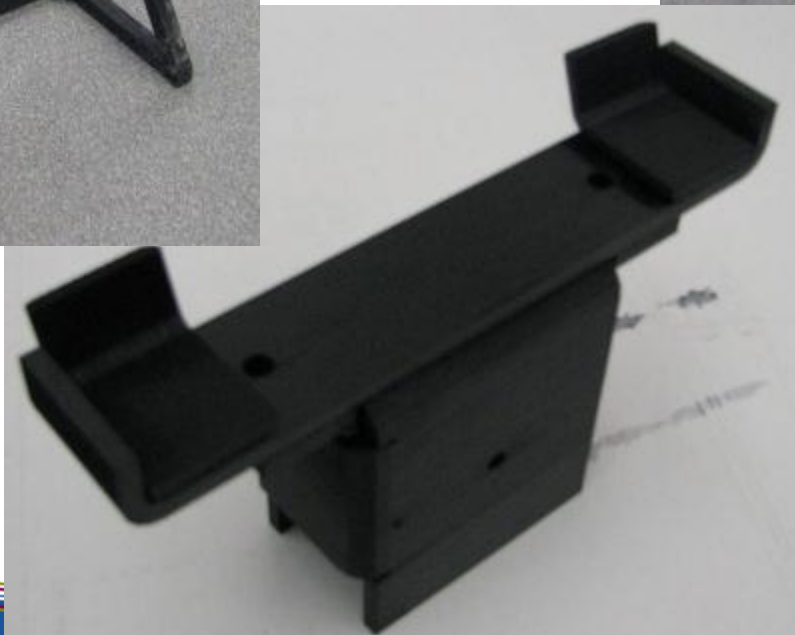
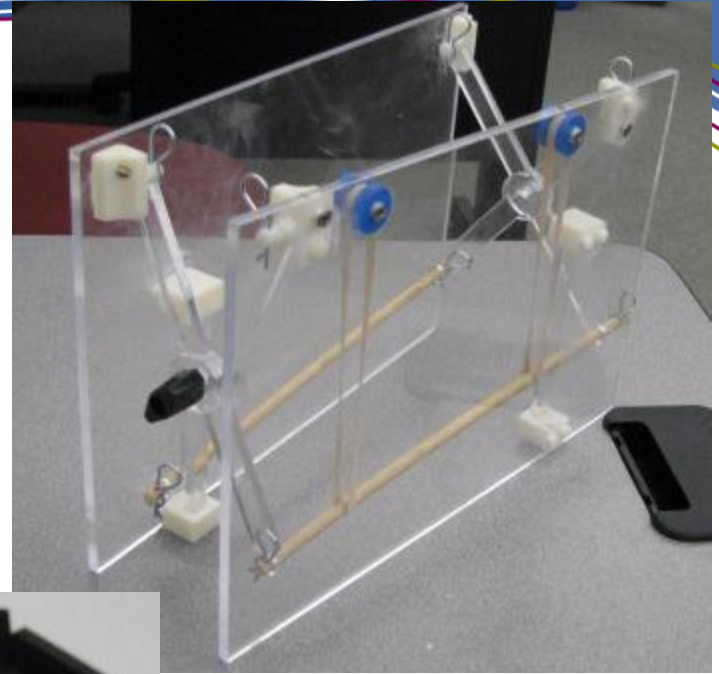
Handgrip For Cart

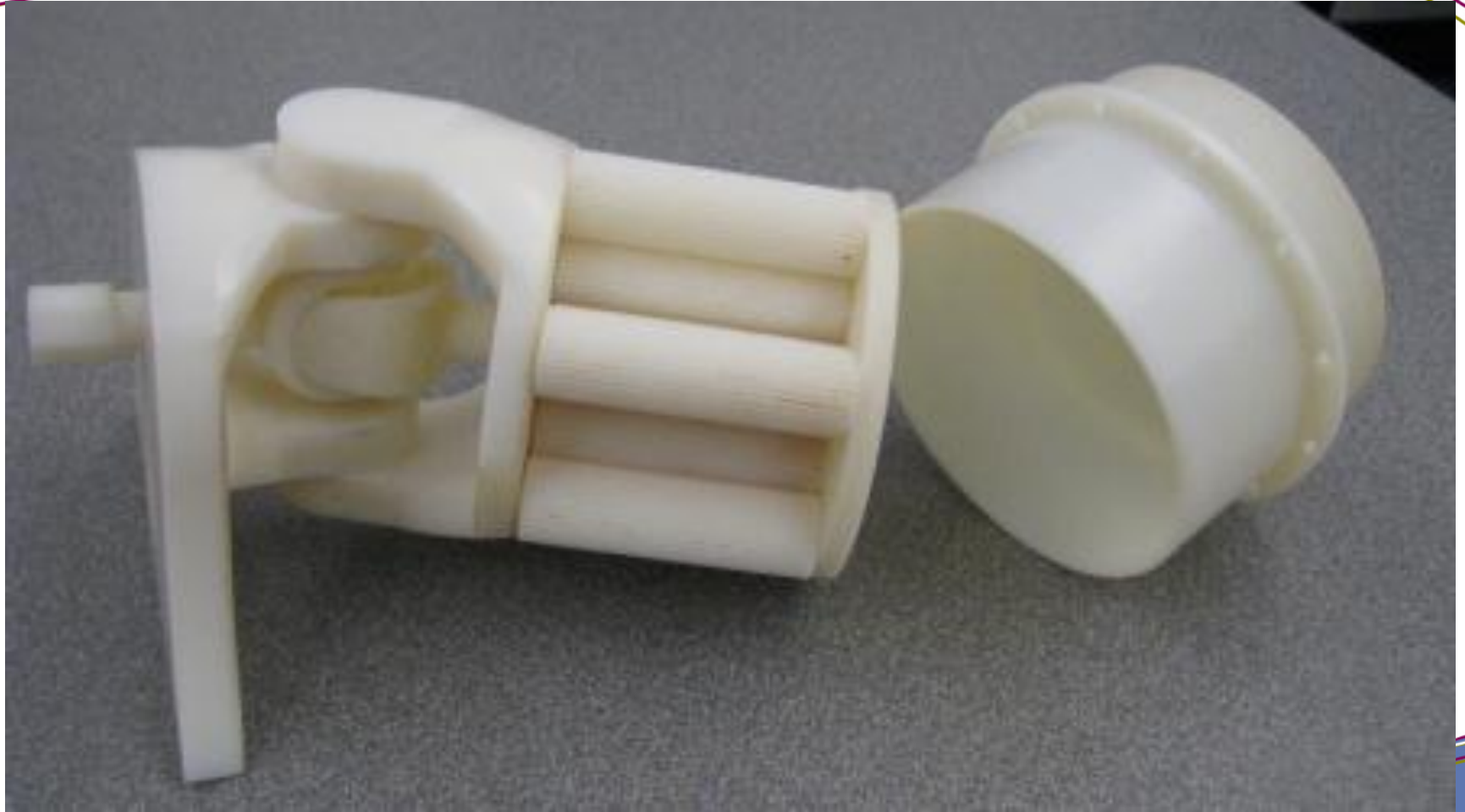


Only Room For
3 Fingers

Uncomfortable
Spacing Between
Fingers



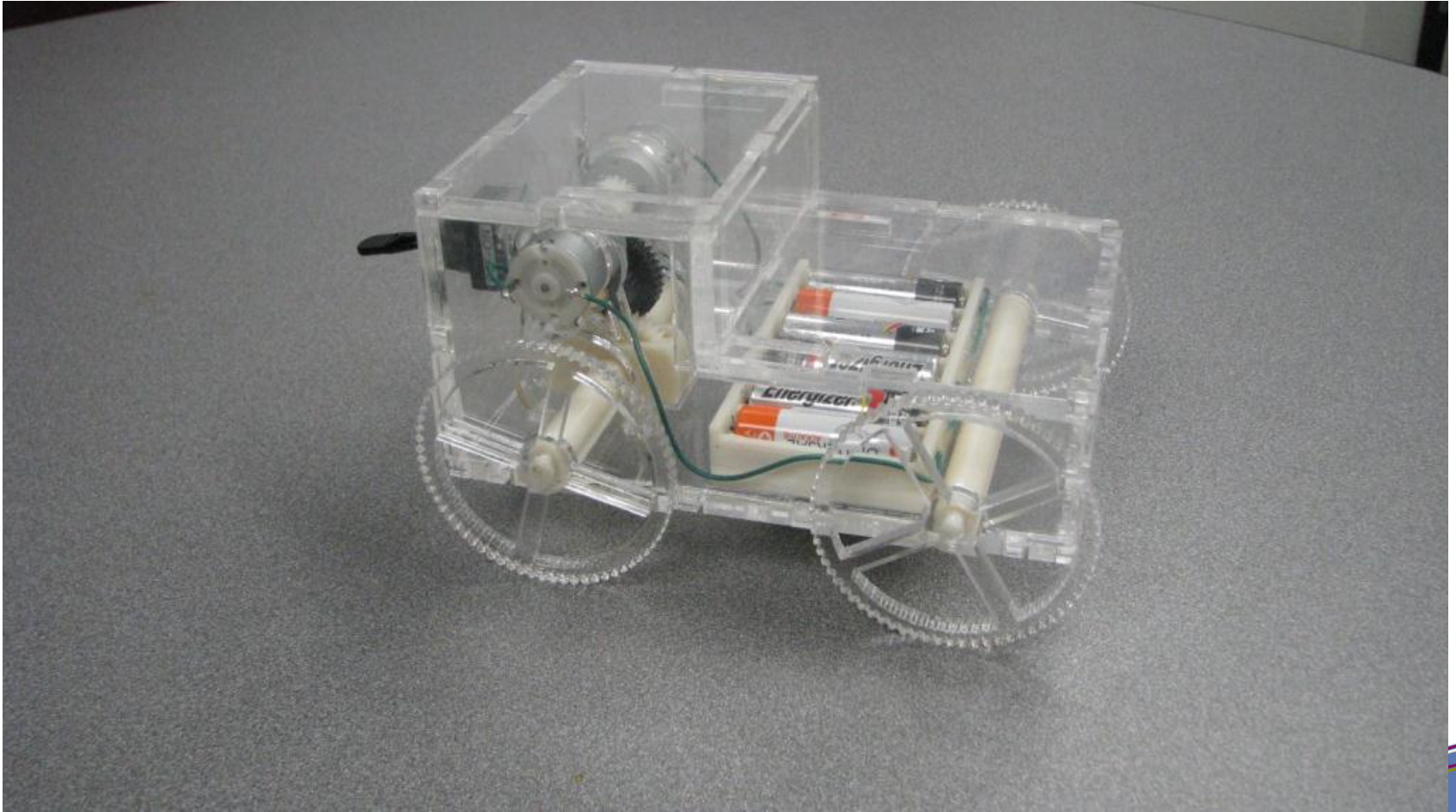


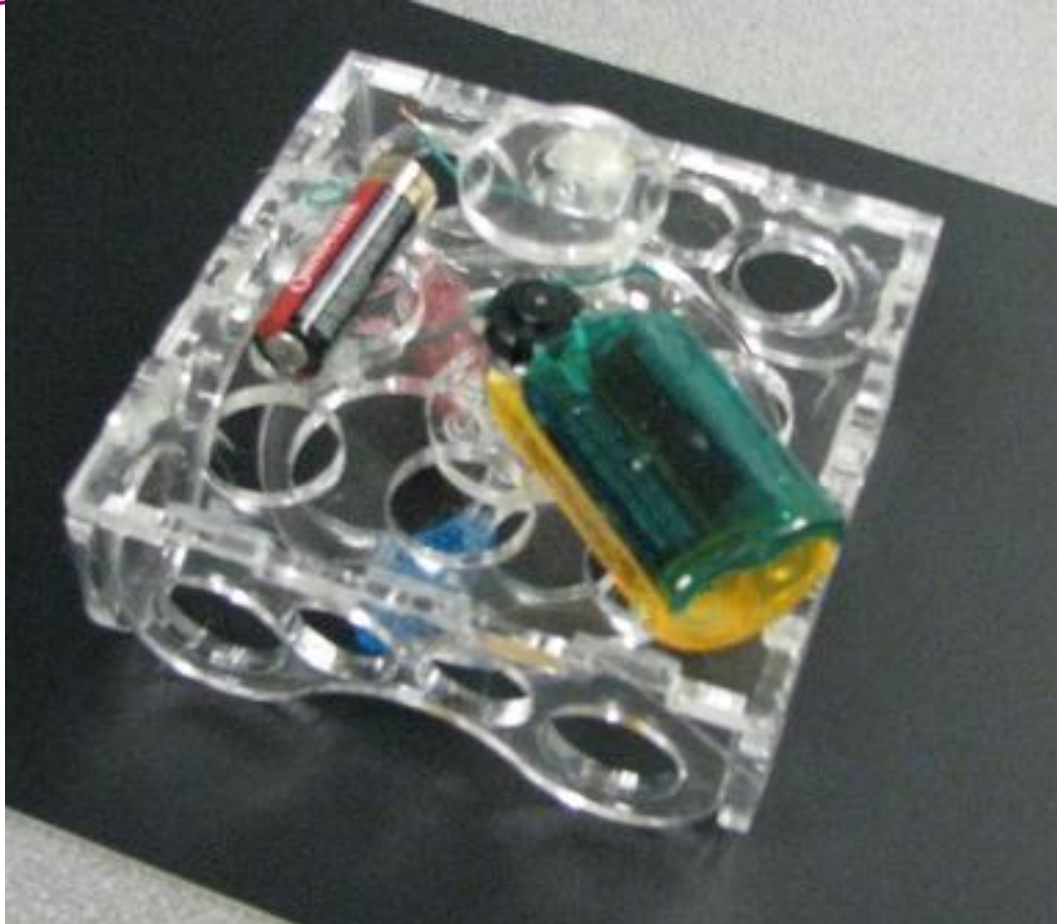


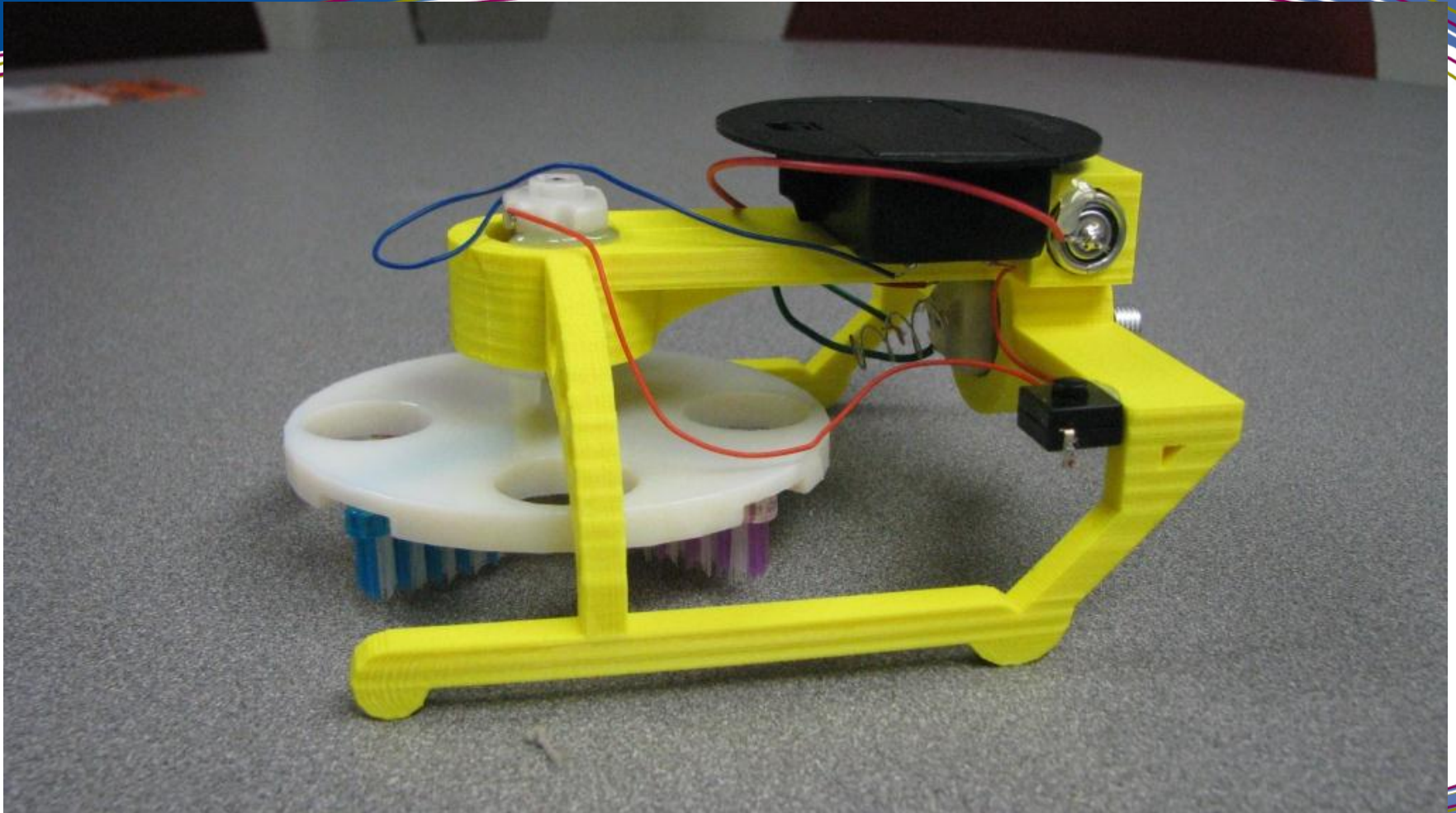


- Expanded scope of projects in Intro to Design
 - Laser
 - Vinyl Cutter
 - Silicone Molding











- Other Programs?
 - Interior Design nametags



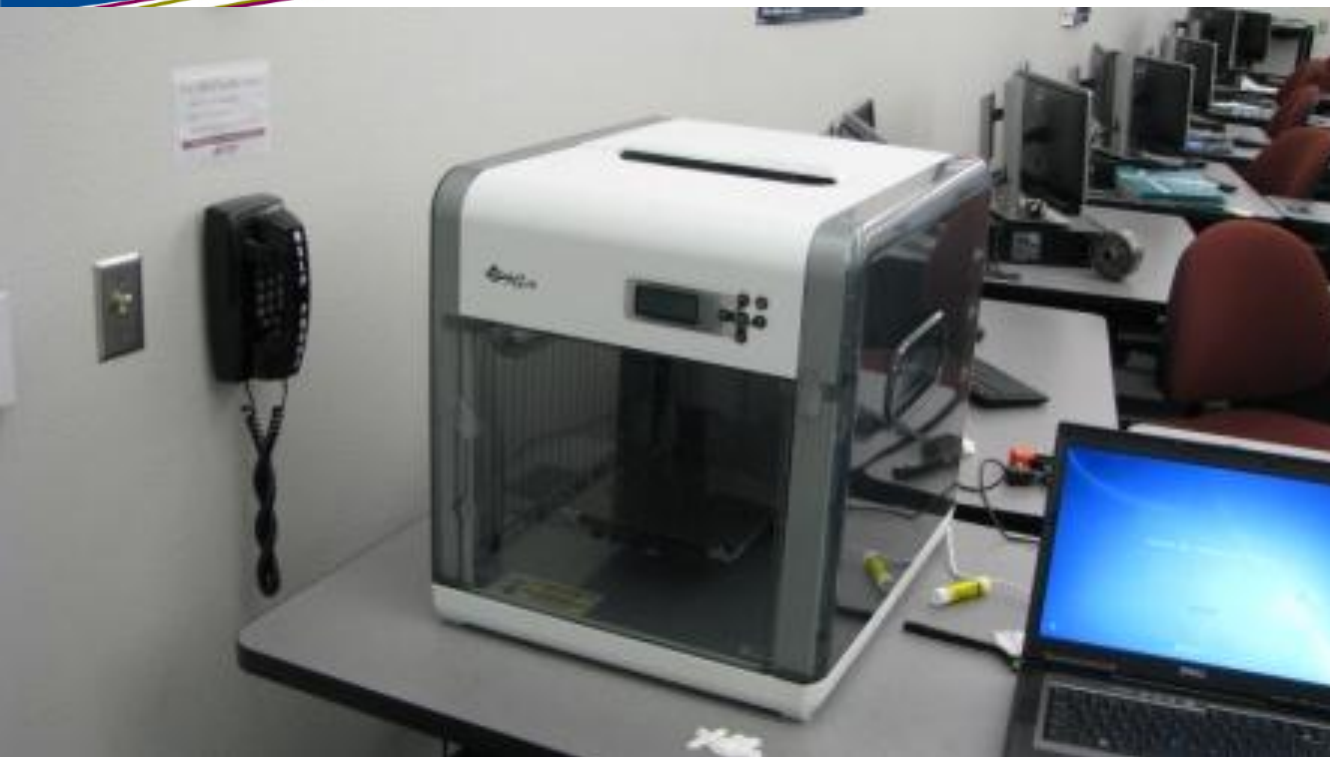
- **FABLAB Club**
 - Laser Engrave Chocolate
Easter Eggs
 - Laser Engrave Glasses for
Valentines Day

- We Have 2 Other
FABLABS
 - Sustainable Technologies
and Applied Engineering
 - STEM and Outreach

- STEM and Outreach
 - 4H
 - Girl Scouts
 - Homeschoolers
 - Etc.

- **Bigger Facility**
 - Shopbot
 - Build Electric Guitars
 - Jewelry

- Adding 2 new smaller FDM units to my classroom
- Encourage more use.



XYZ DaVinci And Orion Delta

- Sources of Inspiration
 - Makezine.com
 - Instructables.com
 - Thingiverse.com