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