### EP1000 - Keychain

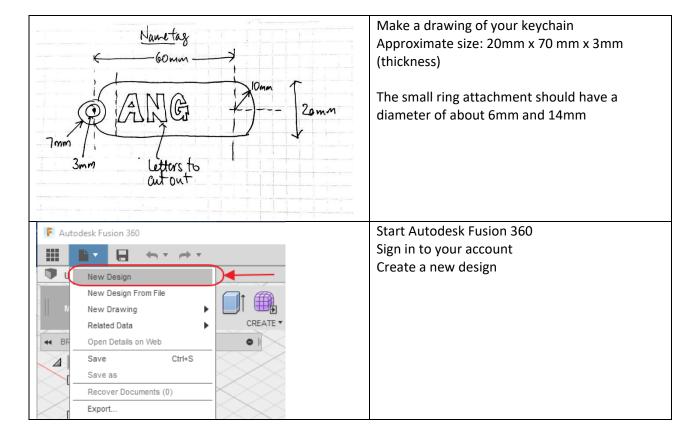
### **Laser Cutting**

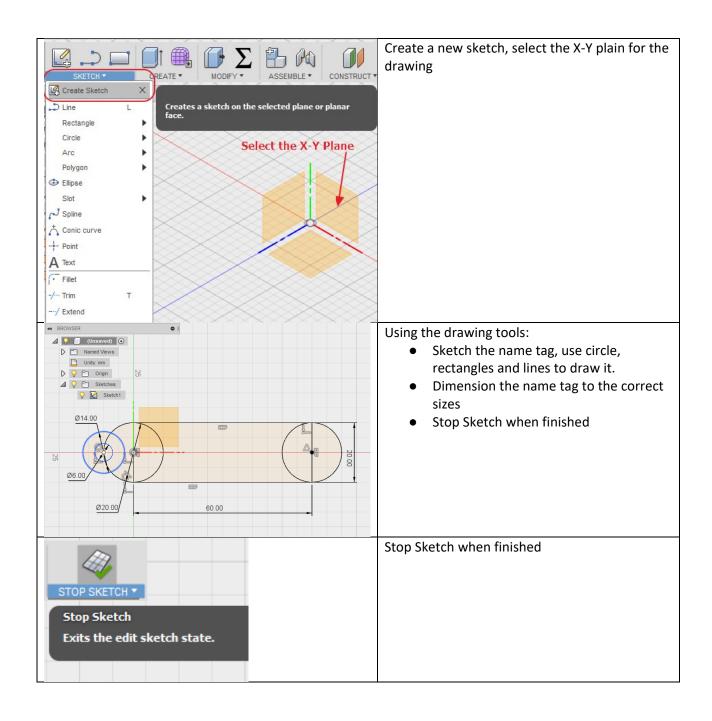
- Light Amplification by Stimulated Emission of Radiation
- Can be used for cutting and engraving
- Focussed light produces very fine cuts
- A 2-D Vector drawing is used as the cutting template and sent to the Laser cutter
- Cutting is based on
  - Power of light
  - o Number of Pulses Per Minute
  - How slow/fast the laser travels
- Carbon Dioxide Lasers (CO2) can cut paper, cardboard, wood, acrylic

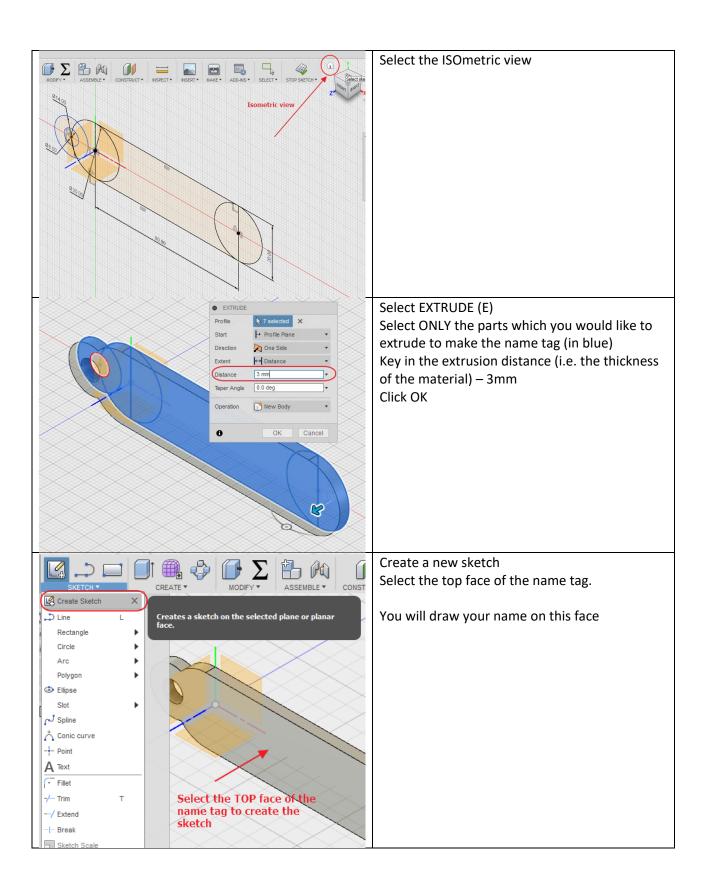
### Let's make a personalised keychain

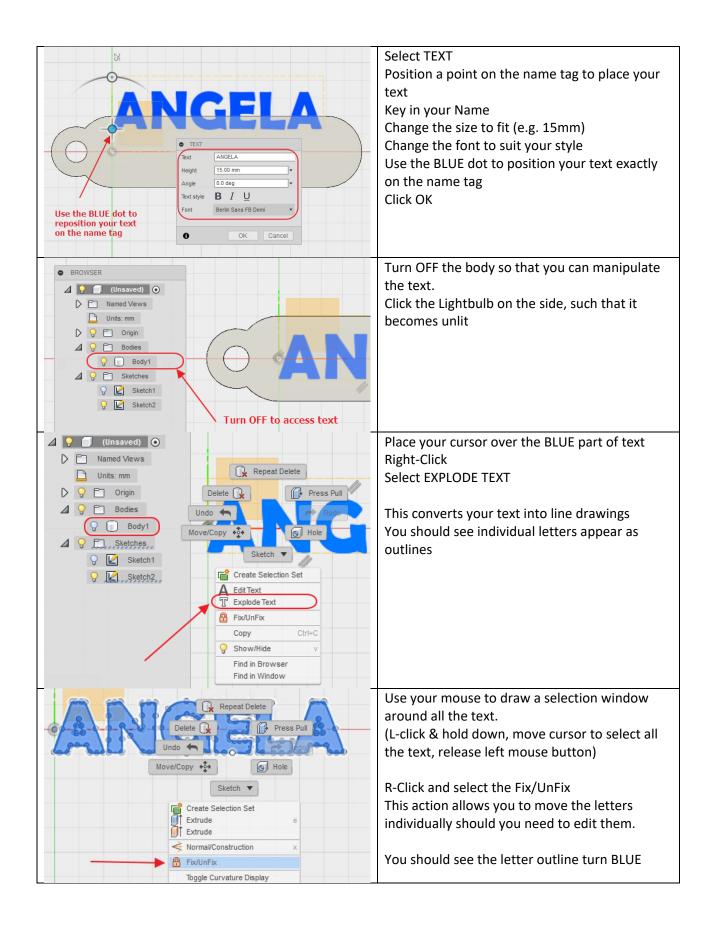
#### Process:

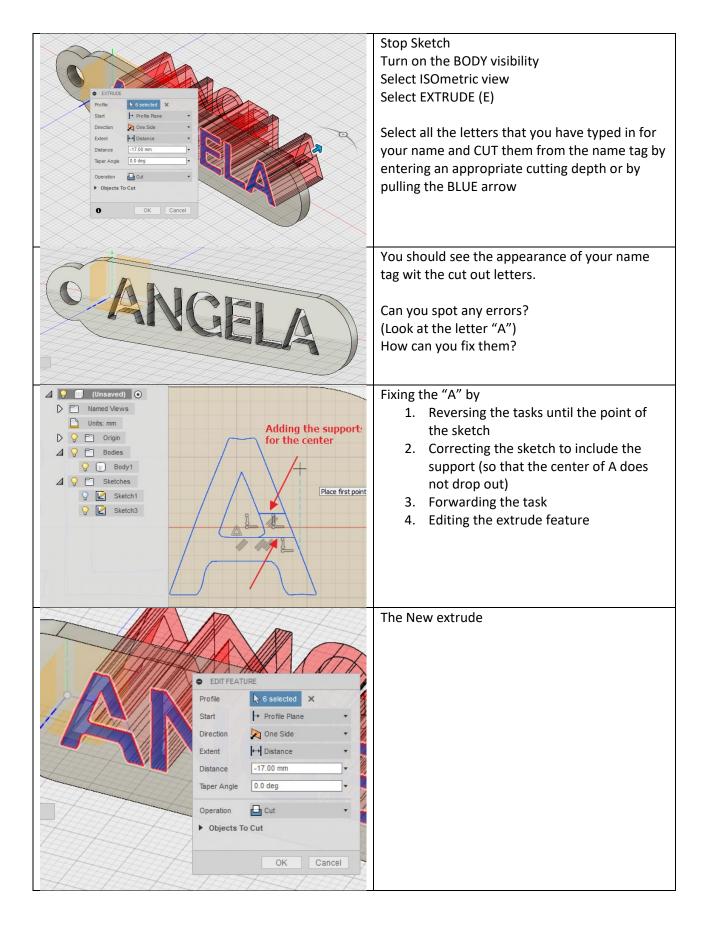
- 1. Draw the design on paper
- 2. Create the design using Fusion 360
- 3. Convert the design to a 2D drawing and export it (DXF file)
- 4. Read the DXF file into the Laser Cutter System
- 5. Cut

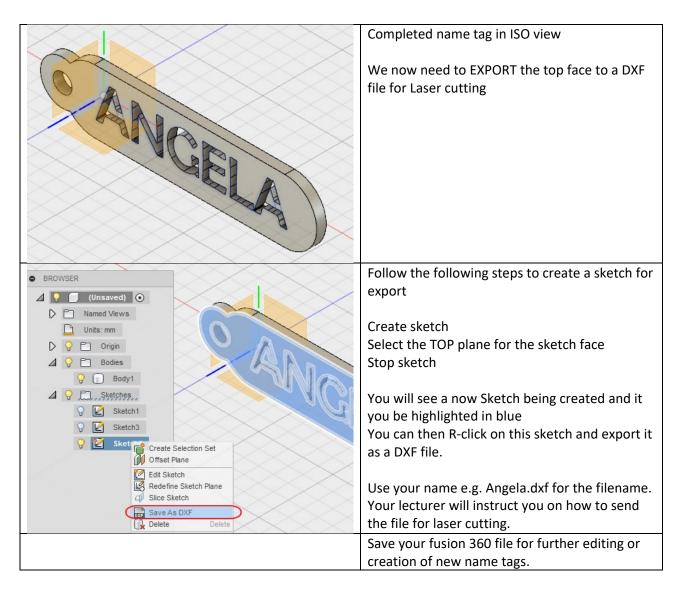




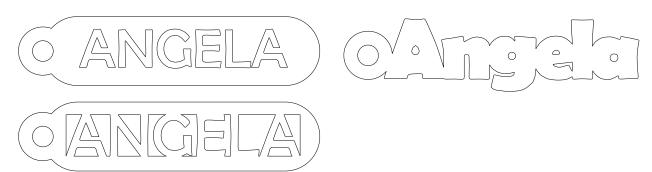






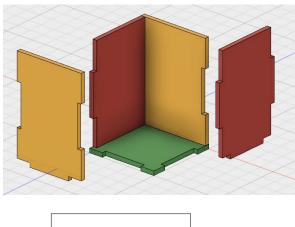


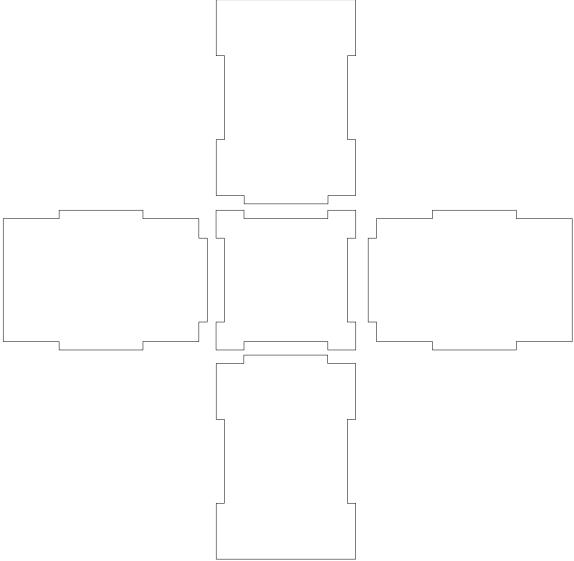
#### Other Examples to try



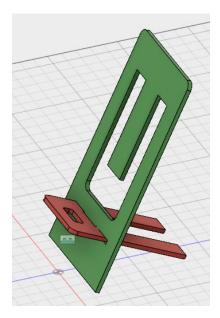
# Other Project Ideas

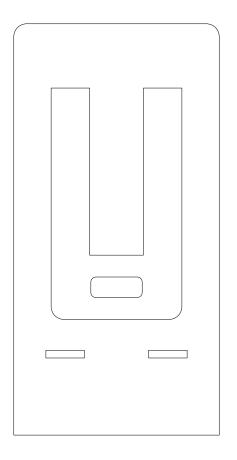






# **Simple Phone Stand**





# **Vertical Drip Irrigation System**



# Raft Hydroponics System

