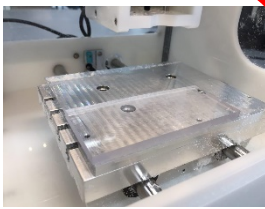
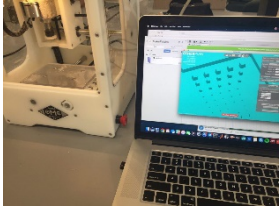


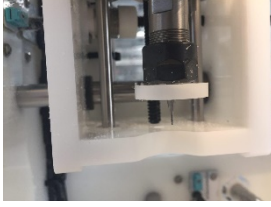
Put double-sided tape on the stock bottom



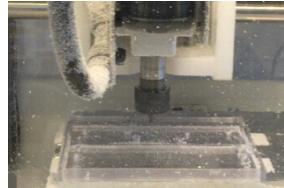
Fix the stock on the spoil board using double-sided tape



Import the design output to Otherplan



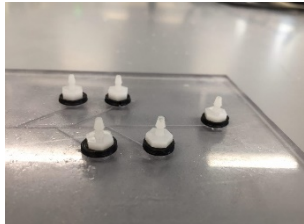
Insert the appropriate endmill to the CNC-mill



Click cut! to mill out the chip

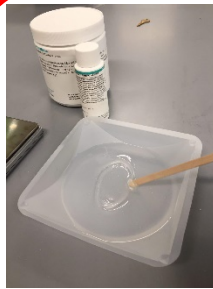


Tap the ports for fluid introduction

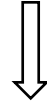


Screw in barbed connectors for fluid introduction

Pattern Geometries



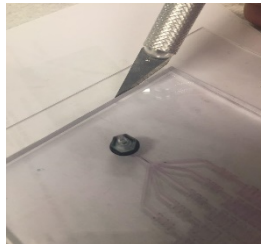
Mix the polymer and cross-linker with a [1:10] ratio



Vacuum for 15 minutes to remove air bubbles

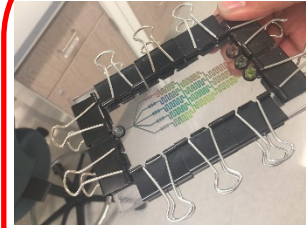


Pour the mix on a glass slide, wait for an even surface, then Bake it for 1 hour at 100 degrees centigrade

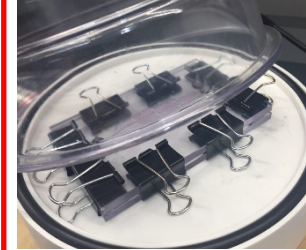
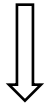


Peel off the PDMS layer, and cut the size of interest using X-acto knife

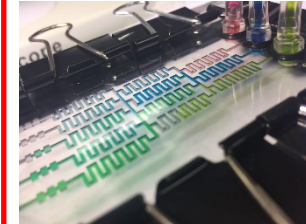
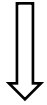
Fabricate Elastic Layer



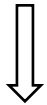
Sandwich the elastic membrane with the control and flow layers use binder clips to fix the layers



Vacuum the chip for 15 minutes



Connect the tubes to connectors



Connect the tubes to syringe pumps and run the experiment

Assemble and Bond