CNSI Microfluidics Lab

CNC Drill Training Outline

1. Safety around automated machinery
   a. Make sure to keep your body away from areas where you could be pinched or cut.
   b. Wear safety glasses at all times
   c. Tie back your hair, tuck necklaces or anything that could get caught in the machine into your clothing.
   d. Remove finger rings.
   e. Keep the work area clean and neat.
   f. Pressing any key when a program is running will stop all of the axes

2. Software
   a. CentreCAM
   b. Flashcut
   c. Dxf2fgc Labview program

3. Hardware
   a. Spindle – ramp speed up
   b. Motors and limit switches
   c. Vacuum chuck
   d. Drill chuck
   e. Coordinate system

4. Tour of Flashcut
   a. Home
   b. Jog
   c. G code
   d. Editing

5. Importance of coolant

6. Drill bits

7. Options for programming
   a. Dxf2fgc
   b. Edit G73 code

8. Crystalbond at 121C

9. Log book