**makeConfig.py (**<https://github.com/jacob964/ablation-GUI>**)**

Tkinter GUI for making GCODE files for ablating PDMS with the current (5/2015) laser cutter setup. The program displays a simple user interface with parameter boxes for all of the relevant parameters necessary to print.

Machine generated alternative text:
Pulsed Ablation - 
Parameters 
Laser Power: 
Residence Time: 
Focal Distance: 
Movement Speed: 
Hexagonal Packing: 
Options 
Make GCOD 
Initial Position 
Grid Size 
Length: 
Width: 
Make GCODE 
@ Home before ablation 
Pause between 
Filename: 

Pressing the Make GCODE button will create a file in a separate GCODE folder with a time and date stamp inside the filename.

NOTE: Must be run as using Python 3. Not compatible with Python 2.

**p-scan.py (**<https://github.com/jacob964/ablative-lasercutter>)

**circle-cut.py (**<https://github.com/jacob964/ablative-lasercutter>)

Script to cut n-sided polygons with Laser Cutter toolchain. Parameters are currently optimized for cutting PDMS with our current z-axis system.

The current implementation (as of 5/2015) requires that the parameters be manually modified from the config.py file.

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#File

fname = "P150.gcode"

f = open(fname,"w")

#Polygon Parameters

nSides = 1000 # Number of sides to polygon

radius = 66.5 # Radius of polygon

theta = 0

#Laser Parameters

feedRate = 500 # mm/s

laserPower = 20 # percent max power

pauseTime = 500 # ms

x\_start         = 378 #418-radius-0.5 # mm

y\_start        = 296 #340-radius-0.5        # mm

z\_start = 124.1 # mm

## Focus = 124.1

#Other

decimal = 3 # number of decimal places in gcode