3D Printer Job Order Form

5 easy steps!

- 1. Open a remote printer account. Forms are at http://www.cnf.cornell.edu/cnf5 steps.html.
- 2. Put your CAD file(s) into .STL format. Make note of a critical dimension (like the length).
- 3. Deliver your .STL file(s) and this printing instructions sheet by email (3dprinter@cnf.cornell.edu) or to the reception desk in the CNF lobby (250 Duffield Hall).
- 4. Reply to an email estimate and acknowledge the cost for the print job.
- 5. Pick up your uncleaned device(s) or have them mailed. Cleaning suggestions will be attached.

CNF User ID Date needed		phone		
Delivery method (circ				
	ess #			
Beth (rhoaded replying to the there are misself) We'll try to keep you specify of by scheduling week to start may be materials). We will NOT of	e estimate of cost estakes on your part, eep your cost to a manage of the estakes. We'll also jobs that use same your job. If you special change fees of \$ clean the support me	cations on this sheet. Plea or 254-4918) with any que email, you are consenting we must still charge you. ninimum by orienting devi try to spare you the cost e materials for the same di ecify that your job must be \$78.00 (light-colored material from your devices haterial from your devices	stions. By submitting the to pay for the work that ices for the quickest prince of changing materials of ay. This means we could be printed as soon as posterials) or \$300.00 (dark of the could be printed as soon as posterials). It is simple, but we'd printed as soon as posterials are soon as posterials.	nis form and t is ordered. If the nt run unless in the printer d wait up to a ssible, there colored
Device #1 STL file nan	ne	Number	of copies to print	
Units (circle one): inc	ches cm mm	ongest length or z height)		
Material (circle one):	VeroClear Durus'	White High-Temp/RGD	525 VeroBlackPlus	
	VeroWhitePlus	VeroBlue Vero Gra	ay	
Which side faces up?		Top finisl	n (circle one): Matte	Glossy
Orientation to print h Special instructions:	eads (circle one): pa	arallel perpendicular c	loesn't matter	

(Have more files? Turn this sheet over!)

Device #2 .STL file name	Number of copies to print	
Units (circle one): inches cm mm		
Critical dimension to scale the device (longest ler	ngth or z height)	
Material (circle one): VeroClear DurusWhite	High-Temp/RGD 525 VeroBlackPlus	
VeroWhitePlus VeroI	Blue Vero Gray	
Which side faces up?	Top finish (circle one): Matte Glossy	
Orientation to print heads (circle one): parallel p	•	
Special ilisti uctions.		
Device #3 .STL file name	Number of copies to print	
Units (circle one): inches cm mm		
Critical dimension to scale the device (longest ler	ngth or z height)	
Material (circle one): VeroClear DurusWhite	High-Temp/RGD 525 VeroBlackPlus	
VeroWhitePlus VeroI	Blue Vero Gray	
Which side faces up?	Top finish (circle one): Matte Glossy	
Orientation to print heads (circle one): parallel pspecial instructions:	perpendicular doesn't matter	

Suggestions for cleaning away the support material

Cleaning involves <u>several rounds of soaking and picking away the support</u>. Soaking (soapy or plain water) makes the support material swell and loosen from the device. Soak times depend on features. Thin walls or small features (< 4 mm) can easily be distorted or cracked by the swelled support. Soak delicate features for 5-10 minutes at a time. Thick or large features can soak hours or overnight. Soaking devices too long will soften the model material and/or lead to warping of features.

Work off the loosened support using a combination of sprayed water, physical picking (probes, forceps, toothpicks, etc.) and brushing with brushes, wipes or sponges. Be warned that the model material seems softer for the first day or after prolonged soaking, and strong water sprays will wear it away. We can also offer suggestions surface preparations such as parylene coating and antistiction treatment.

A typical device will require several rounds of cleaning.

1. Soak.

- 2. Pick and rinse away the outer support.
- 3. Repeat soaking.
- 4. Repeat picking and rinsing away the support. (repeat these steps until support is gone)
- 5. Wipe away support residue with a wipe, gentle sponge or paper towel. (OPTIONAL) To remove support residue, soak 10 30 minutes in 2% NaOH. Rinse and wipe well.