



## EQUIPMENT TRAINING LOG

**User Name:** \_\_\_\_\_ **Start Date:** \_\_\_\_\_  
**Email:** \_\_\_\_\_ **Cell / Phone #:** \_\_\_\_\_  
**PI:** \_\_\_\_\_ **PI Phone#:** \_\_\_\_\_

	Signature of User	Trainer	Trainers Initials	Date	Super User	Trainers Initials
<b>After Hours Access</b>						
<b>Depositions Tools</b>						
CHA Mack 50 Evaporation (superuser tool)		<b>Mo Kebaili</b>				
E-Beam 1 evaporation (Temescal CV-8)		<b>David Crosley</b>				
E-Beam 2 evaporation (Temescal CV-14) (superuser tool)						
CHA Thermal evaporation (SEC-600-RAP)		<b>Vu Phan</b>				
PE 4400 Sputtering (superuser tool)		<b>Mo Kebaili</b>				
PE 2400-A Sputtering (superuser tool)		<b>Mo Kebaili</b>				
PE 2400-B Sputtering (superuser tool)		<b>Mo Kebaili</b>				
Electric Plating						
ALD Atomic Layer Deposition Cambridge						

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<b>Lithography Tools</b>						
Canon i4 4000 Stepper (superuser tool)		Jake Hes				
E-Beam lithography (superuser tool)						
Karl Suss MA6 Mask Aligner		David Crosley				
Karl Suss MJB-3 Mask Aligner		David Crosley				
Kasper Mask Aligner model 3001						
Quintel Mask Aligner						
UV Flood exposure system		David Crosley				
Solitec spinner Model 5110-CT		Mo Kebaili				
Solitec spinner Model 5110-ND		Mo Kebaili				
Solitec spininer Model 5110-C-TD		Mo Kebaili				
Laurell Spinner #1		David Crosley				
Laurell Spinner #2		David Crosley				
Laurell Spinner #3 (BION)						
Headway Spinner #1		David Crosley				
Headway Spinner #2		David Crosley				

<b>Dry Etching</b>						
STS System DRIE		Vu Phan				
Plasma-Therm RIE Model 780		Vu Phan				
Trion ICP/RIE		Mo Kebaili				
Ion Milling		Mo Kebaili				
XeF2 Pulsing Etcher		Vu Phan				

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<b>Plasma-Asher</b>						
Gasonics Downstream Plasma Ashing		Lifeng Zheng				
Technics II 500		Lifeng Zheng				
Plasma line asher						

<b>CVD System</b>						
Plasma-Therm PECVD Model 780		Vu Phan				
BMR Low Temp PECVD (superuser tool)		Mo Kebaili				
Anicon LTO CVD (superuser tool)		Mo Kebaili				
ASM LPCVD low-stress nitride, poly (superuser tool)						

<b>Diffusion Furnaces</b>						
6 inch Dry and Wet Oxidation Tube (superuser tool)		Jake Hes				
4 inch Dry Oxidation Tube		Jake Hes				
4 inch long anneal Tube		Jake Hes				
4 inch sintering Tube		Jake Hes				
4 inch Boron Tube (superuser tool)		Jake Hes				
2 inch Nano furnace Tube (superuser tool)		Jake Hes				
6 inch mini-brute thermal bonding Tube		Jake Hes				
4 inch mini-brute Tube		Jake Hes				
Heatpulse 610 RTA		Jake Hes				
Anodic Bonding Furnace up to 4 inch (superuser tool)		Jake Hes				

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<b>Characterization</b>						
SEM Hitacht 4700 / EDAX		Vu Phan				
HS200 Confocal Microscope / Profiler (superuser tool)		Vu Phan				
Dektak Profilometer		David Crosley				
Tencor FLX-2320A Stress measurement tool		Vu Phan				
Nanospec AFT / Nanometrics 200		Vu Phan				
Gardner ellipsometer (superuser tool)		Vu Phan				
Tousimis 815C CPD (superuser tool)		David Crosley				

<b>Back-End Processing Tools</b>						
K&S 780 Dicing Saw (superuser tool)		Vu Phan				
K&S Wedge Bonder		Vu Phan				
K&S Gold Ball Bonder		Vu Phan				
Hybrid Ball Bonder		Vu Phan				
Cincinnati Sub-Zero Environmental chamber						
Tenney Environmental chamber						
Inert Environment Blue M Oven 600 Degree						
Vacuum Oven						

**\*If user does not utilize a specific tool for 90 days or more, access to the tool is denied and the user must see technical staff to be re-certified.**



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<b>After Hours Access</b>						
<b>Depositions Tools</b>						
E-Beam Evaporation (Temescal SR-10)						
MRC Modtek 8667 Sputtering System						
<b>Lithography Tools</b>						
Karl Suss MA56 Mask Aligner						
Quintel Mask Aligner						
AB&M.INC UV Flood exposure system						
Laurell spinner Model						
Laurell spinner Model						
Laurell spininer Model						
<b>Dry Etching</b>						
Plasma Technology Model 800MP RIE						
Plasma Technology Model DP800 UP						
Laser Ablation Tool Resonetics						

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<b>Plasma-Asher</b>						
Anatech LTD Model SP100 Plasma system						
Technics II 500 Mercator Control Plasma system						
Plasma line asher						
Harrick Plasma Cleaner						
<b>CVD System</b>						
Tylan PVD-1000						
Applied MST MVD 100						
<b>Hot Embossing</b>						
Nano Imprinter Jenoptik Hex03						
REY Embosser						
Scientific Technology Embosser						
Digital Combo Embosser						
<b>Characterization</b>						
Dektak 3 Profilometer						
<b>Back-End Processing Tools</b>						
CO2 Water Jacketed Incubator Series II						
Class II Biohazard Safety Hoods						
Rapid Temp 1800 Series Furnace						

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