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| #1 Process  (if applicable) | Ablating copper off of FR4 to make PCBs |
| #2 Equipment | ProtoLaser U4 |
| #3 Personal Protective Equipment (PPE) | * Eye protection |
| #4 Environmental /  Ventilation controls. | Make sure the dust extraction unit is attached and functional. |
| #5 Required training or approval | * Review and observe general safety practices outlined in the Shop Equipment Safety Guidelines. * Refer to the manufacturer’s operating manual for all operating procedures. * ProtoLaser training from Prototyping Lab staff. |
| #6 Inspection requirements before use | * Visually inspect the tool for damage. * Pay attention to any errors thrown by the machine. * Ensure that all safety interlocks are functioning properly |
| #7 Safe operating procedures or precautions | * Make sure that dust extraction is activated during machining of the work piece. Use fine particle filters exclusively. * Follow the instructions listed on the Prototyping Lab GitHub. * Do not attempt to cut any unapproved materials using the ProtoLaser |
| #8 Chemicals/ spill procedures/waste disposal | Filter bags should be swapped out every 20 hours of use. Make sure to wear an appropriate dust mask and gloves when handling the filter bags. |
| Author Signature: Date: | |