

# Department of Mechanical Engineering

## Makerspace Safe Operating Procedure

### 3D Printer

#### Pre-Operational Checks:

1. Be sure the spool is correctly inserted into filament head. 2. Be sure printer has been started up properly and is clear of all obstacles. 3. Visually check that all lines and cables are free from tangles or trip hazards. 4. Pre-heat board to ensure proper adhesion/stability. 5. ABS VAPORS ARE TOXIC. Be sure area is well ventilated. 6. Report any faulty operations to TA or Supervisor.

#### Operational Checks:

1. Be sure to verify that you have loaded the correct file. 2. Keep all doors closed and check that the material can feed freely. 3. Always use goggles and cut resistant gloves when removing support materials.

#### Housekeeping:

1. Clean table and chamber of all debris. 2. Return all accessories to storage racks. 3. Leave the work area in a safe, clean and tidy state. 4. Unplug any unused cords and other equipment. 5. Leave it better than you found it.

#### Potential Hazards

Hot Surfaces

High voltage (240v)

Sharp edges

Automatic movement

Toxic Vapors

Cuts

Melting plastics

Eye injuries

By signing this document, I, \_\_\_\_\_, agree to abide by I agree to use makerspace responsibly in accordance with the rules, policies, and guidelines in this document.

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MEDDL User

Date

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MEDDL Makerspace

Date