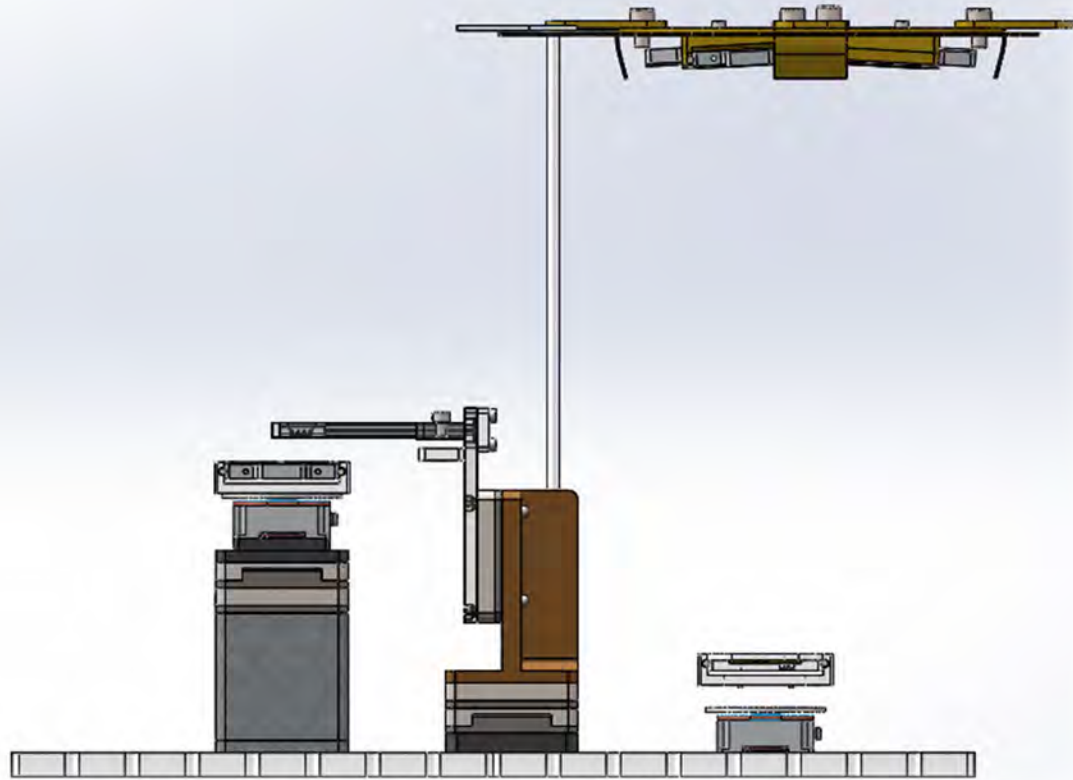
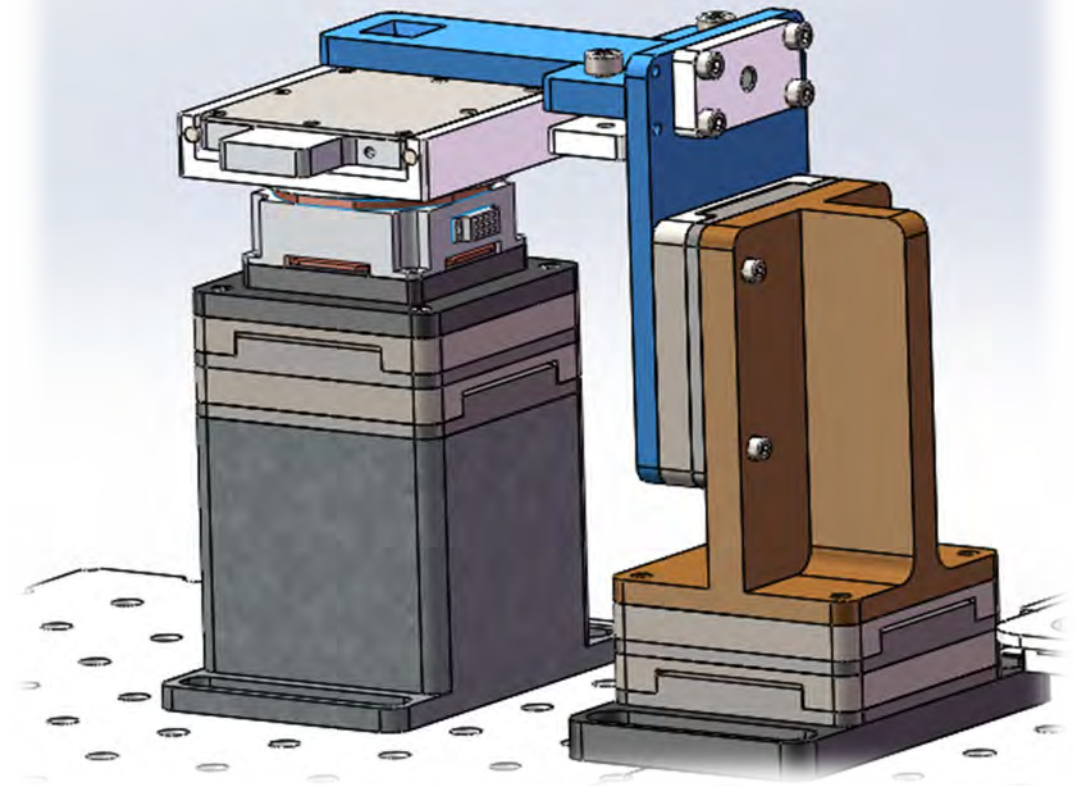


Automated 2D device
fabrication system in glove box

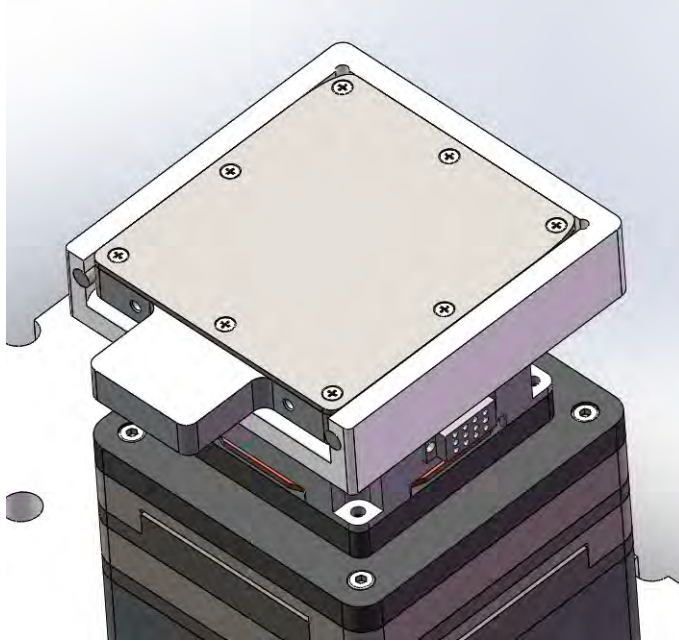


- Magnetic mask table
- Vacuum tube
- Transfer station
- Evaporating pan

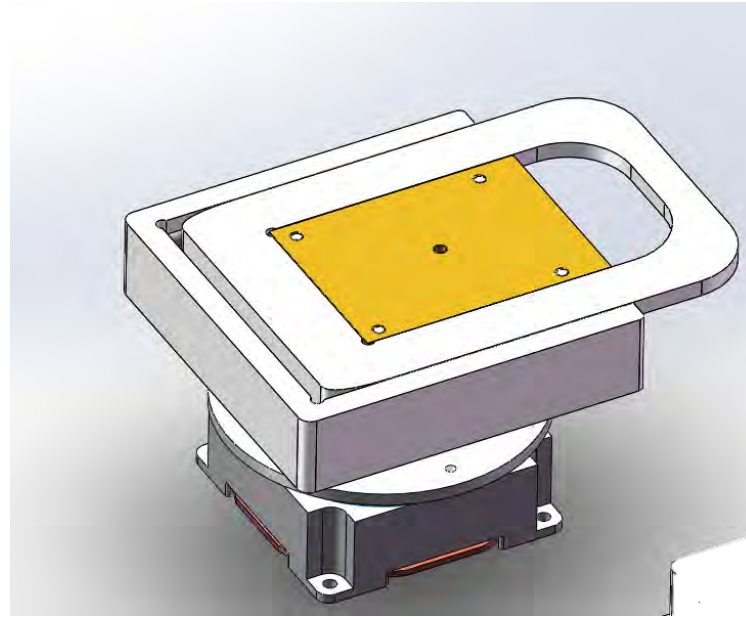
Outlook



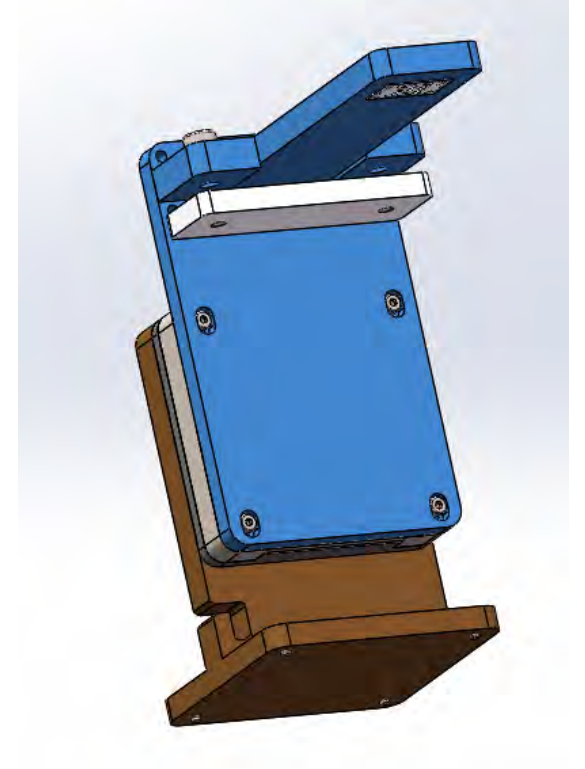
Improvements



- Different types of countersunk

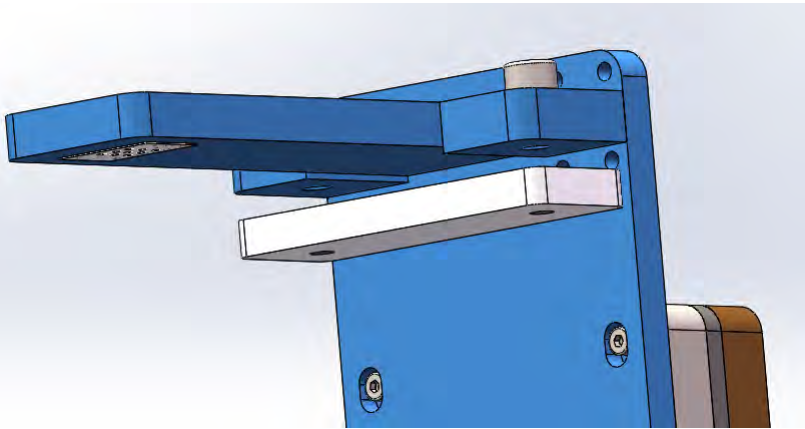


- New handle

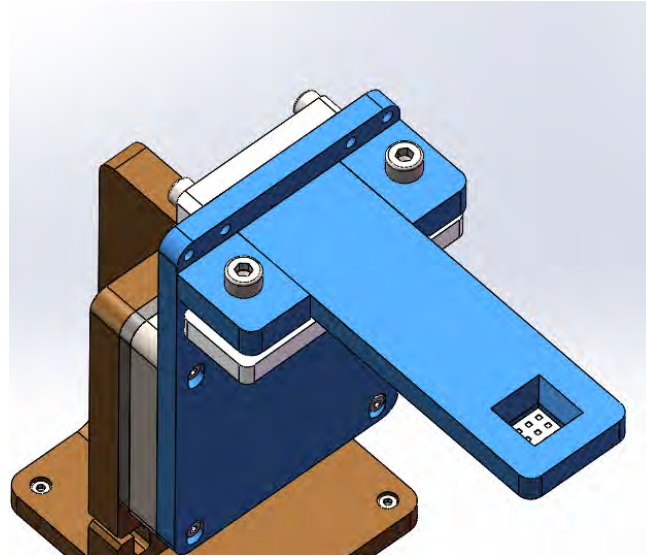


- 4 screws to fix the adsorber

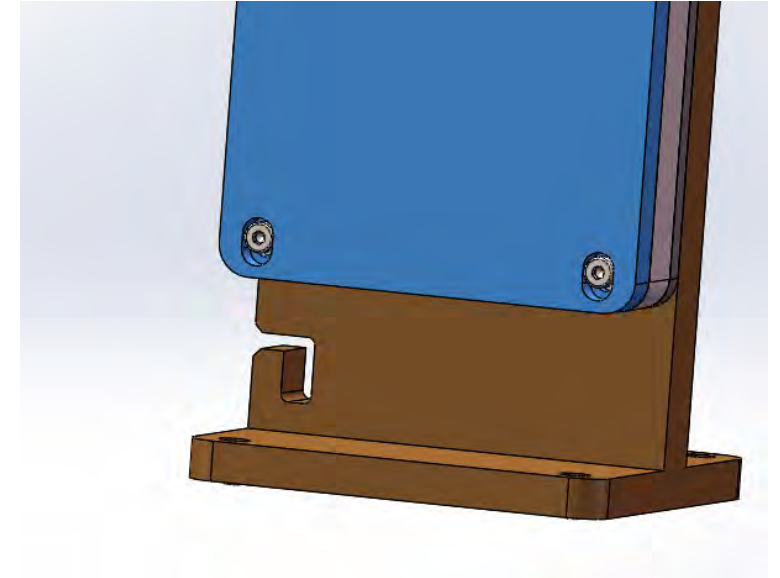
Improvements — sample transferring



- A trough to hold the glass slide

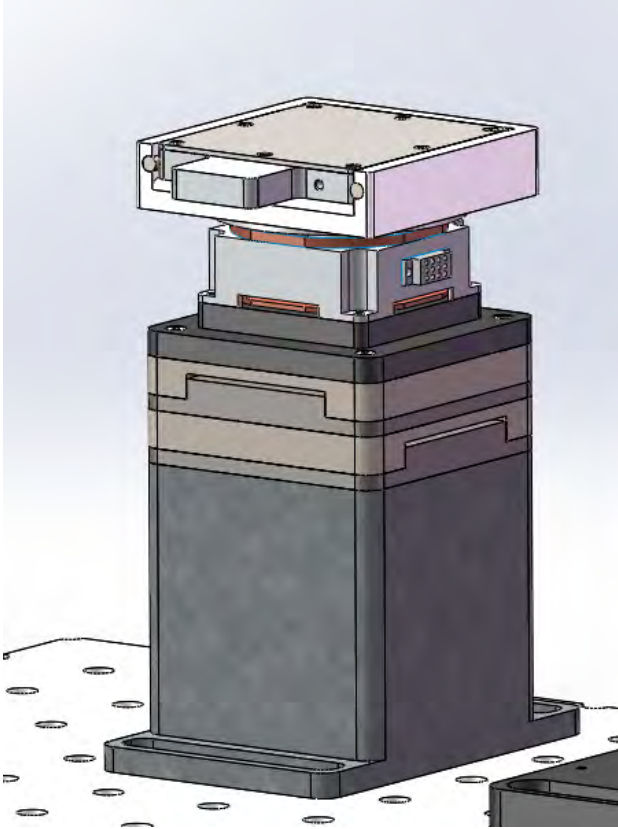


- Observing the sample through the window

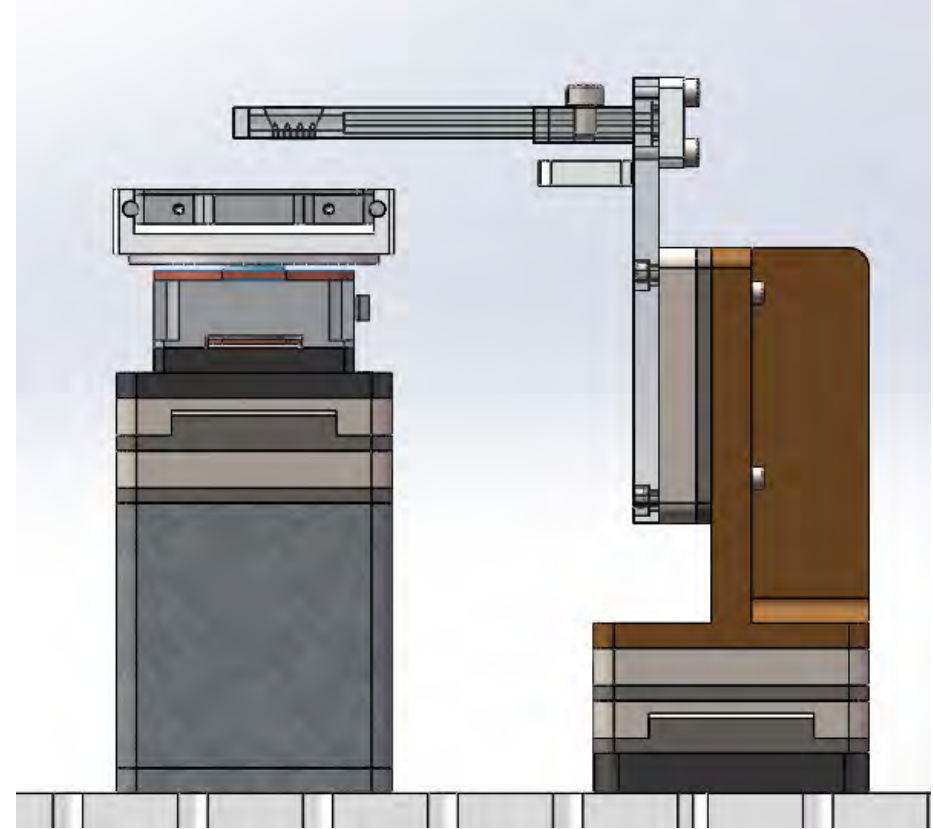


- Wire spacing

changes



- No tilt table but a furring



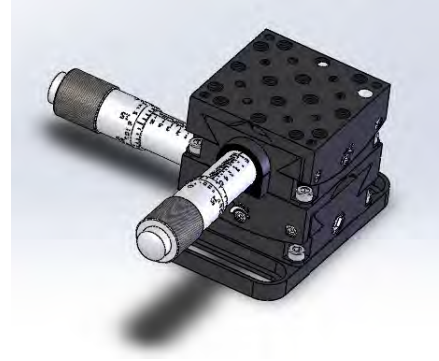
- Satisfy the relative sapcing

Choice — kinds of tilt table

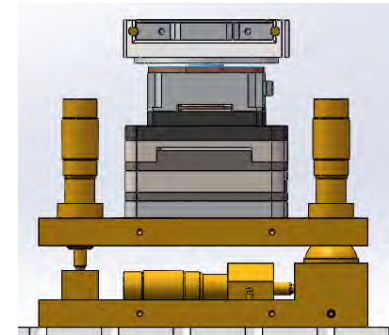
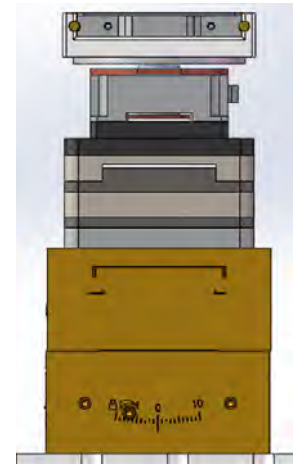
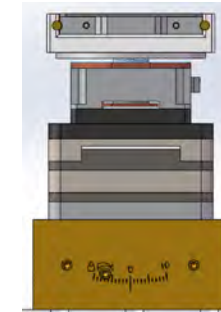
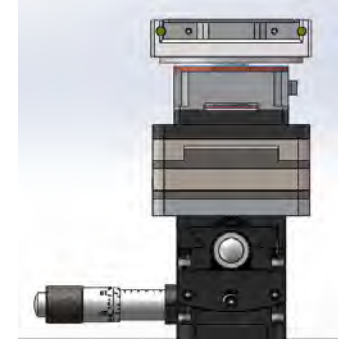
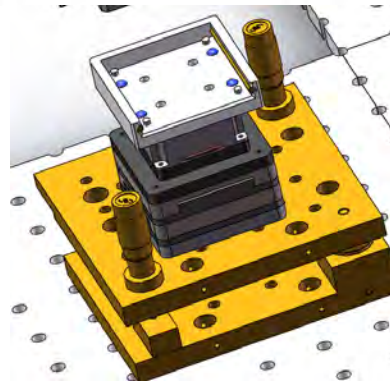
- From Thorlabs, has a tiny surface
Advantage: free moving distance.
Disadvantage: unstable, low-load.

- From Newport, large surface
Advantage: stable, high-load, suitable surface size.
Disadvantage: lack of the handle, need two table (expensive), hard to combine.

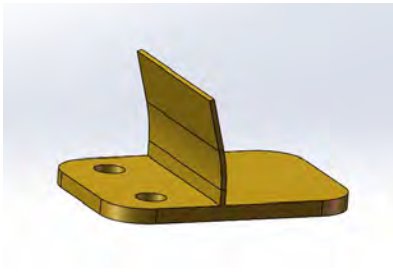
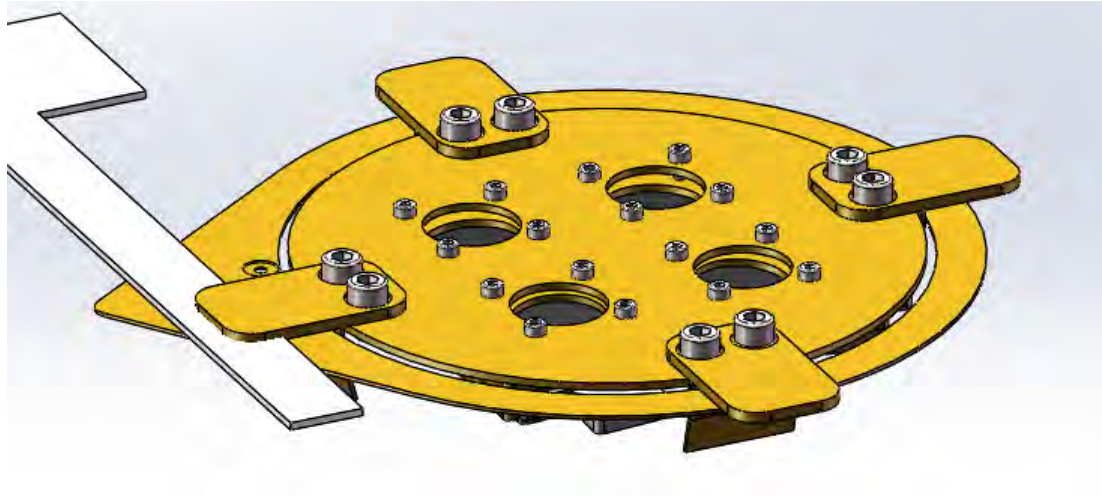
- From Newport, huge surface
Advantage: stable, easy to adjust,
Disadvantage:



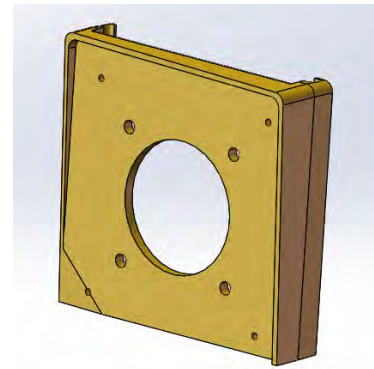
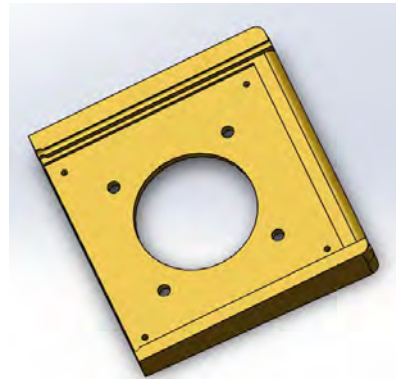
GON65-L	GON65-U
Lower Goniometric	Upper Goniometric
-5 to +5°	-10 to +10°
1°	1°
65 x 65 mm	65 x 65 mm
45 N	45 N
30 mm	30 mm
80 mm	50 mm
6-32 and 1/4-20	6-32 and 1/4-20



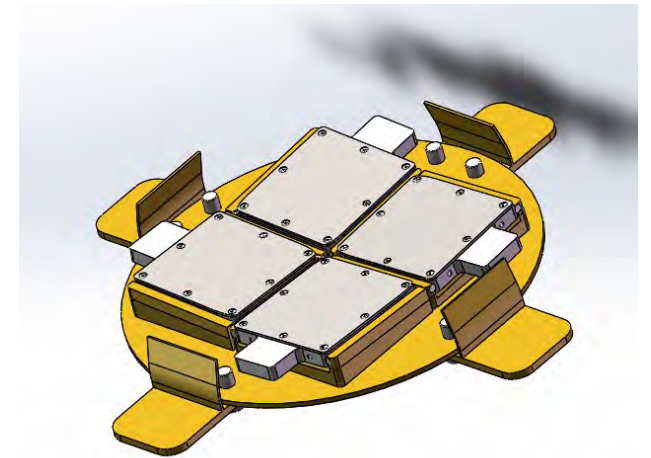
evaporator



- Fixing and spacing

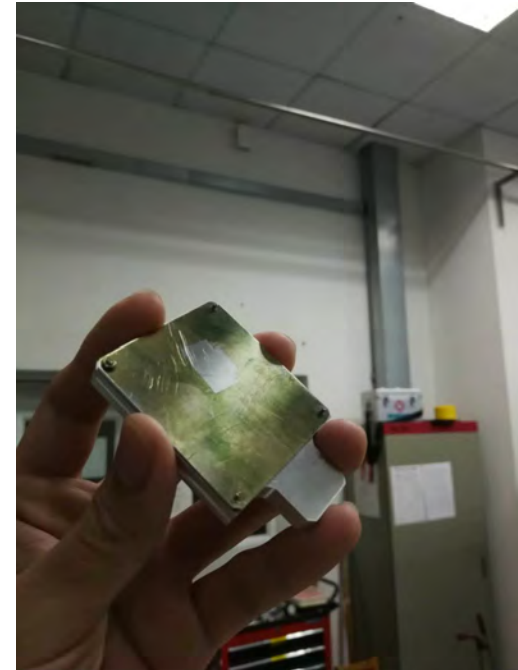
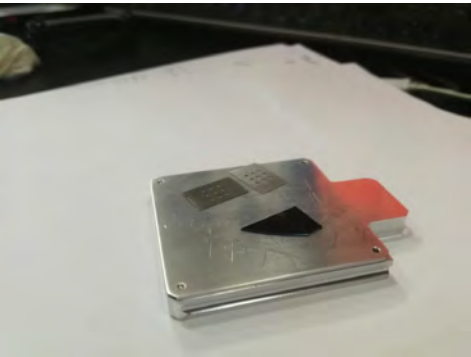


- Smaller and lighter holder



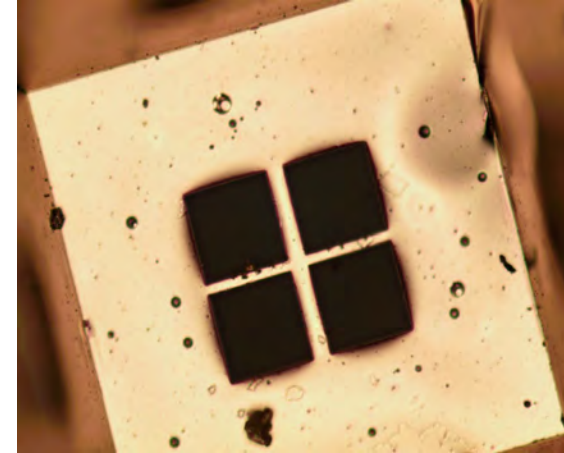
- 160 mm diameter

Mask holder is coming

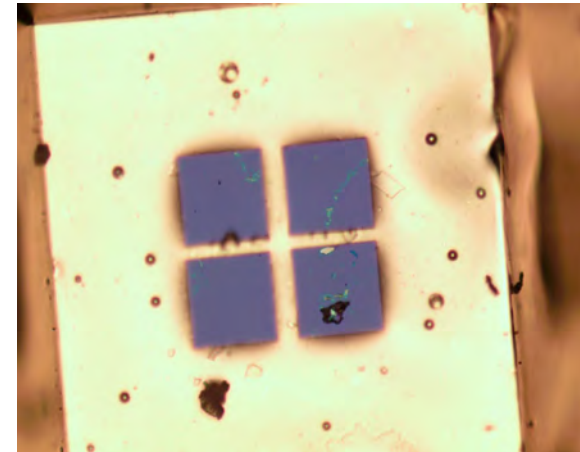


Tests

- Attaches the mask on the permalloy slice by elargol (silver glue)

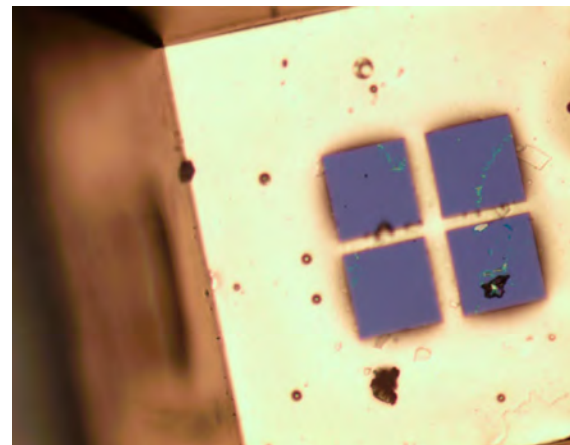
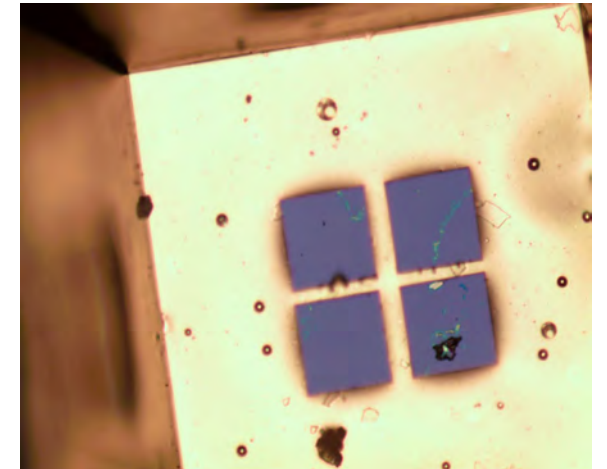
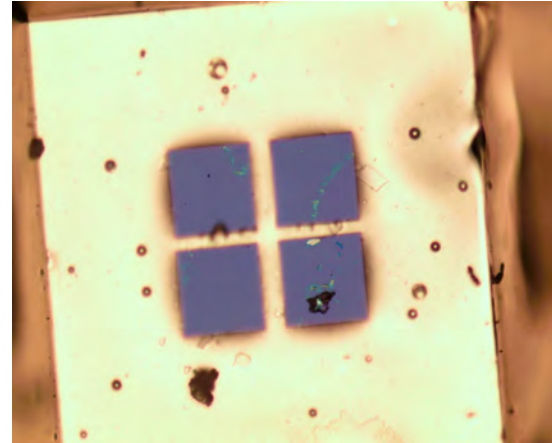


- Align the mask and the sample



Tests

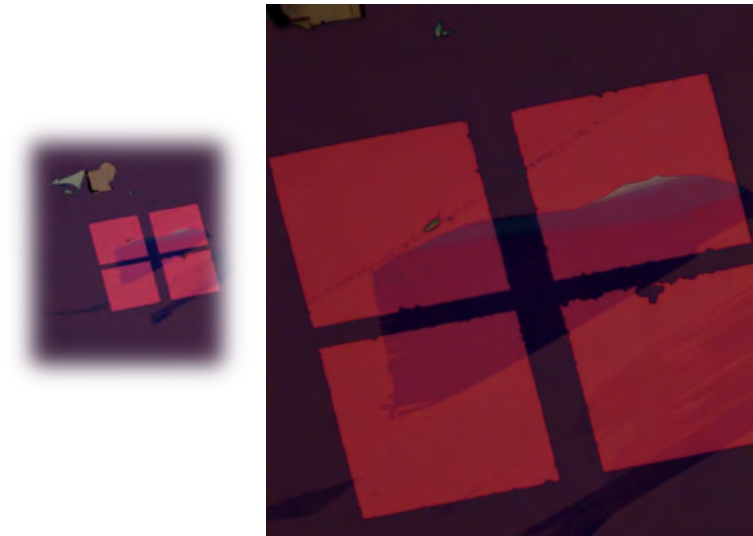
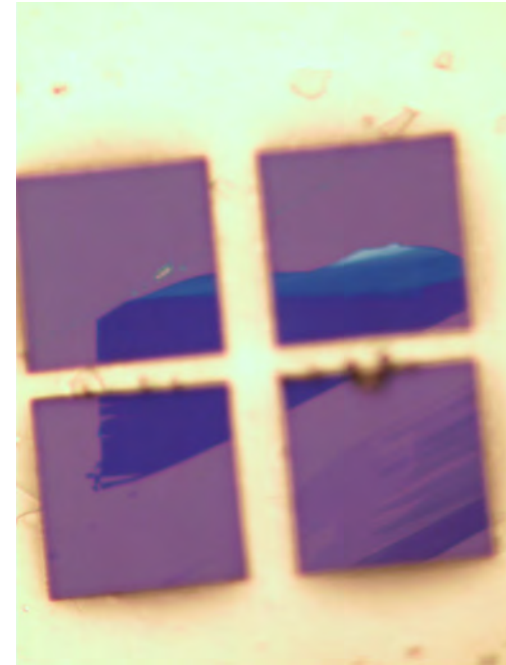
- Original image
- Swift and accelerate ---- remain stable
- Flipflop and turn around



Coincide completely

Tests - - - - evaporating

- Find a piece of graphene and align it with the mask
- No moving and no diffusion of the golden vapor which indicates that it's tight enough



Mask's mask

