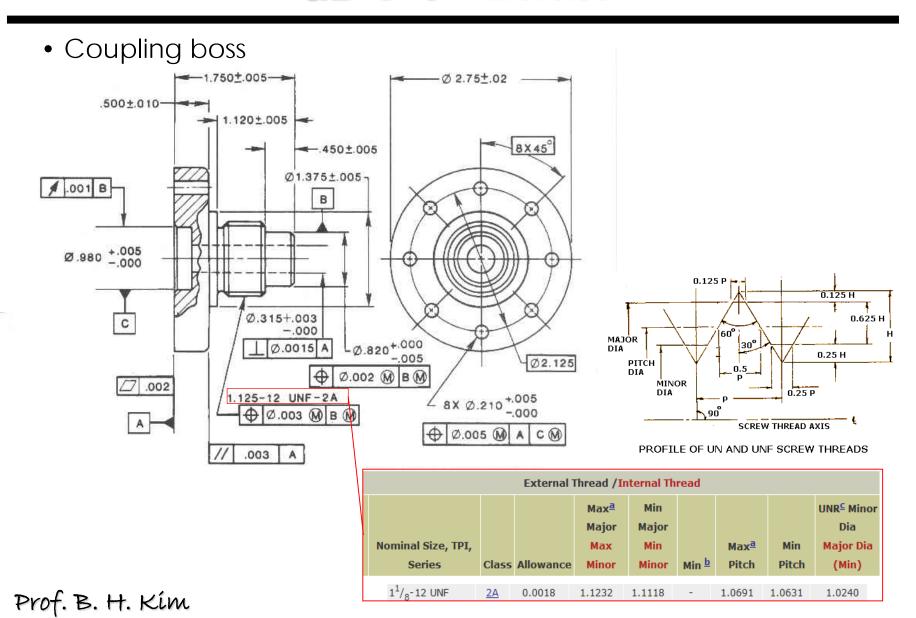
Advanced Solid Modelling

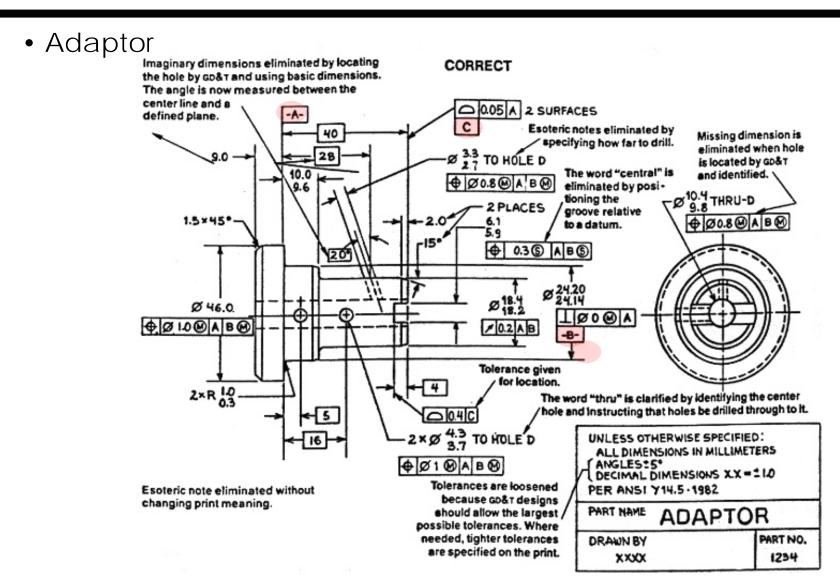
2D drawing/Tolerancing 6th Week

DEPARTMENT OF
MECHATRONICS ENGINEERING

GD & T – Exercise

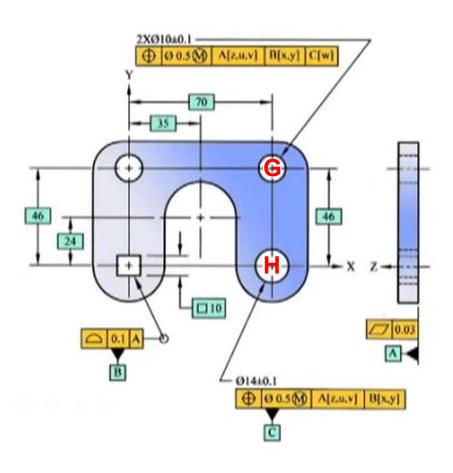


GD & T – Exercise



Prof. B. H. , ____

GD & T - Exercise



Datum A

- √ Flatness 0.03mm(or inch)
- ✓ Usually put downward (ground)

About hole H

- ✓ At the MMC condition, the virtual size of the hole is calculated as 13.9 0.5 = 13.4mm
- ✓ Overriding the spatial DOF

 [x y z] → Translational DOF
 [u v w] → Rotational DOF
 A[z, u, v] : 3 DOFs can be constrained by the datum plane A
 B(x,y): 2 DOFS can be constrained by the square pin

About hole G (datum C)

- ✓ virtual size of the hole = 9.4mm
- ✓ Overriding the spatial DOF C[w]: 1 DOF can be constrained by the pin at H

About square hole (datum B)

- ✓ Profile of a surface < 0.1</p>
- ✓ Each squareness < 0.1
 </p>

Prof. B. H. Kim