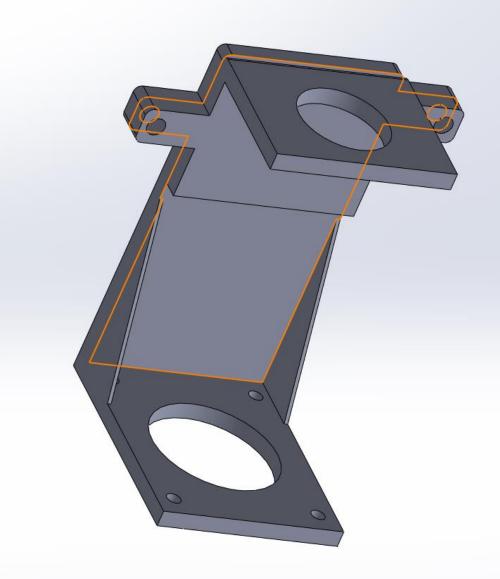
## Concept O2 sensor stand for Powder metal 3D printer

## Challenges to overcome

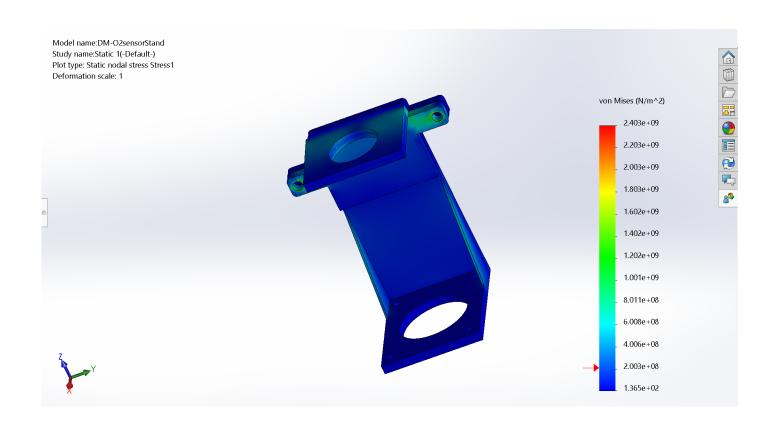
- Had to be machined right behind print head
- About 30 cm above from the surface
- Should hold the ntron O2 sensor
- Obtain accurate reading of 0.2% o2 of vacuum chamber when inerted

## Design concept

 Bracket made from aluminum for ease of machining and at a height of 30cm from the surface oof the 3D printer



## FEA



- Programmed CNC lathe for machining
- Used GibbsCam for G code
- Final result of O2 % inside the vacuum chamber was 0.2



