

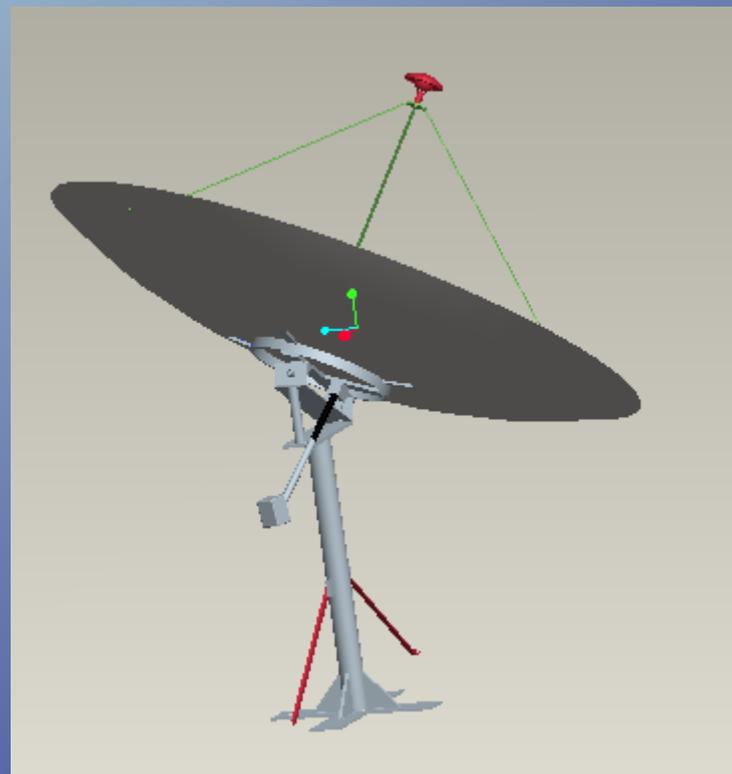
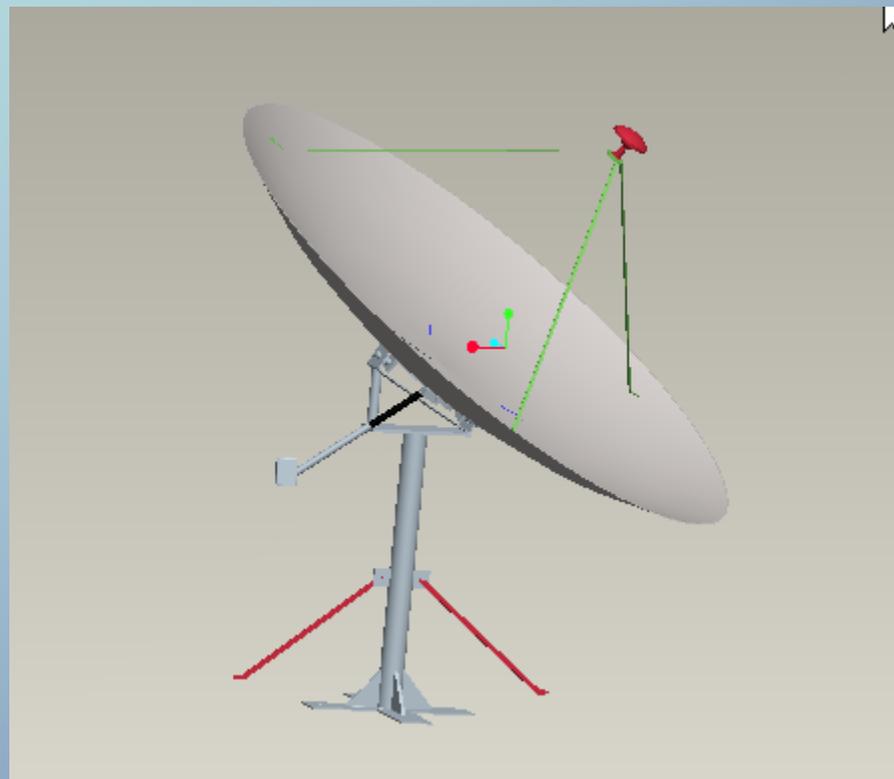
CAD

Raed Abusanad

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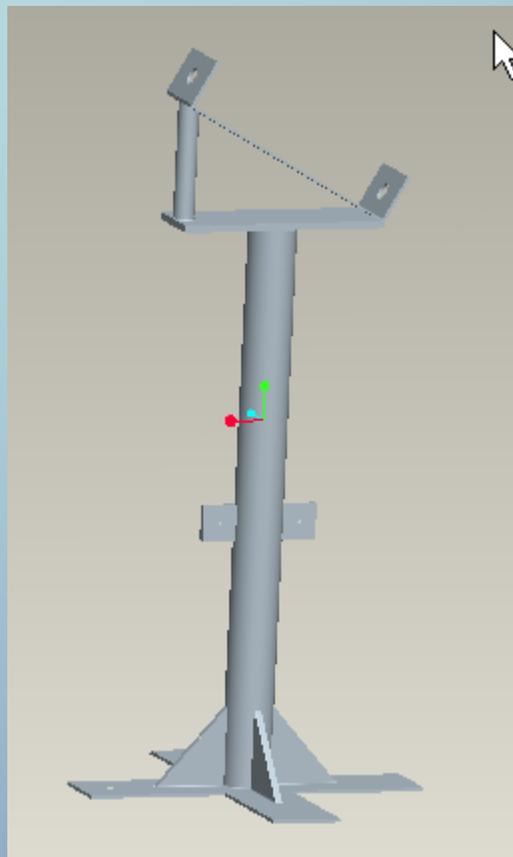
Project 2

Sat-Dish

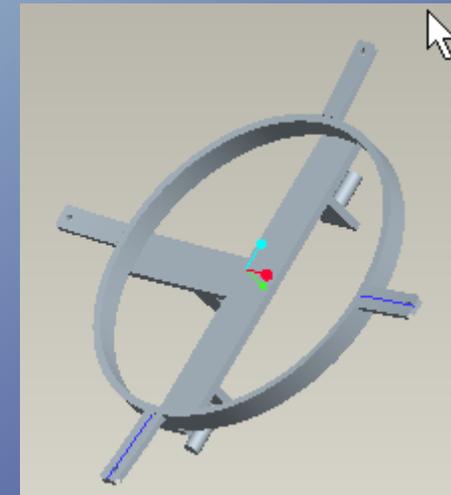
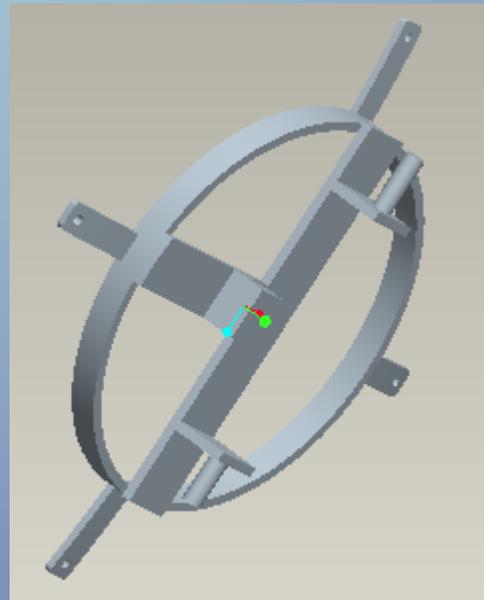


This model illustrates the mechanism of sat dishes that most of us have in its home. It was assembled using 11 parts. I added some joints to get the motion required For this mechanism.

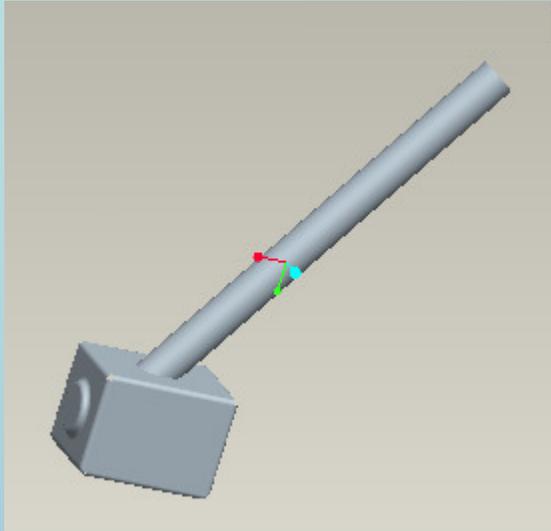
Part 1: dish stand



Part2 : dish holder



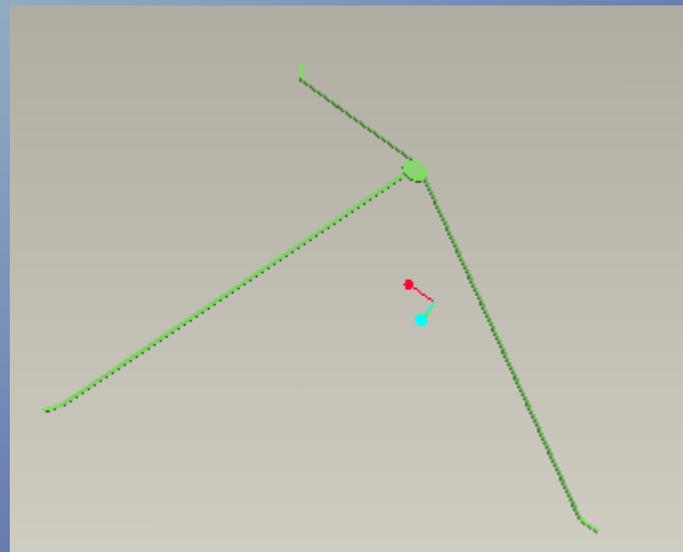
Part 3: motor



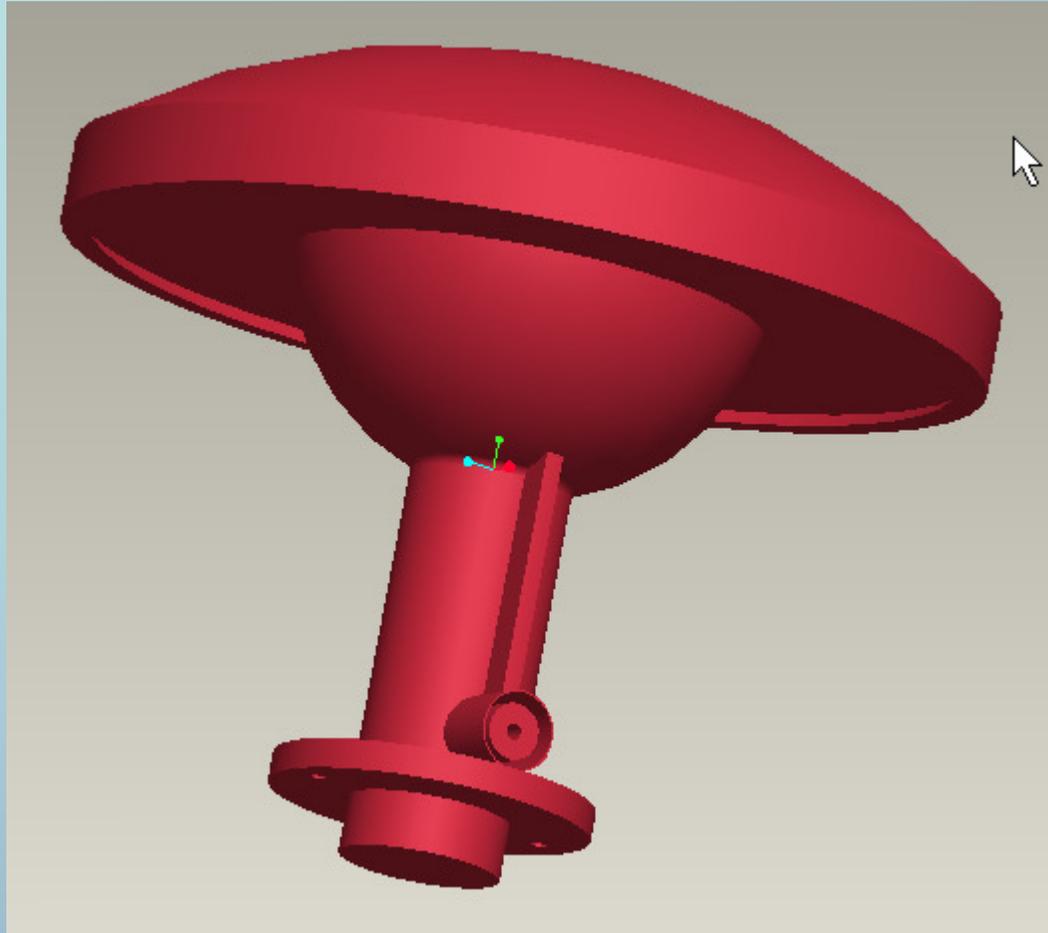
Part 4: dish



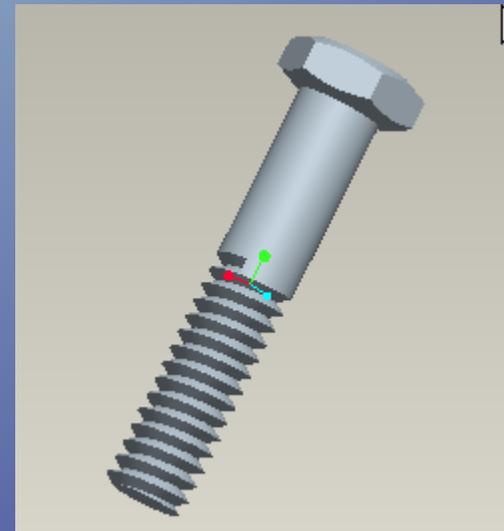
Part 5: receiver stand



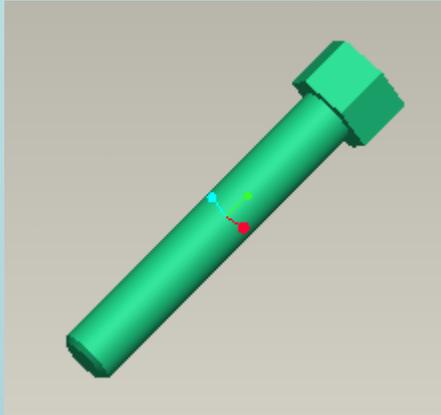
Part 6: receiver



Part 7: screw



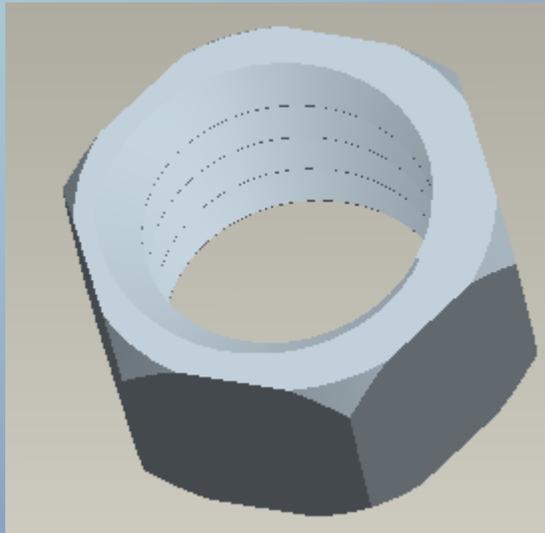
Part 8: small fixtures



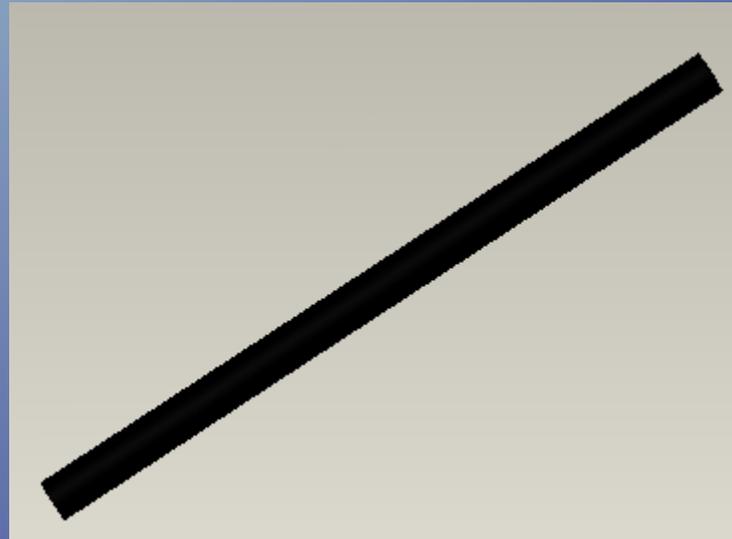
Part 9: stand supports



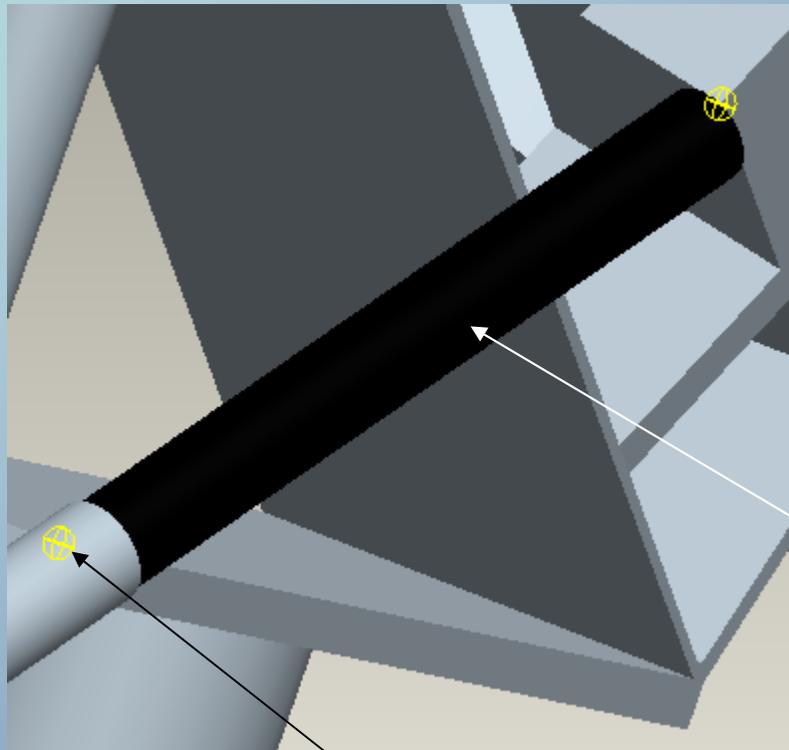
Part 10: screw nut



Part 11: pushing rod

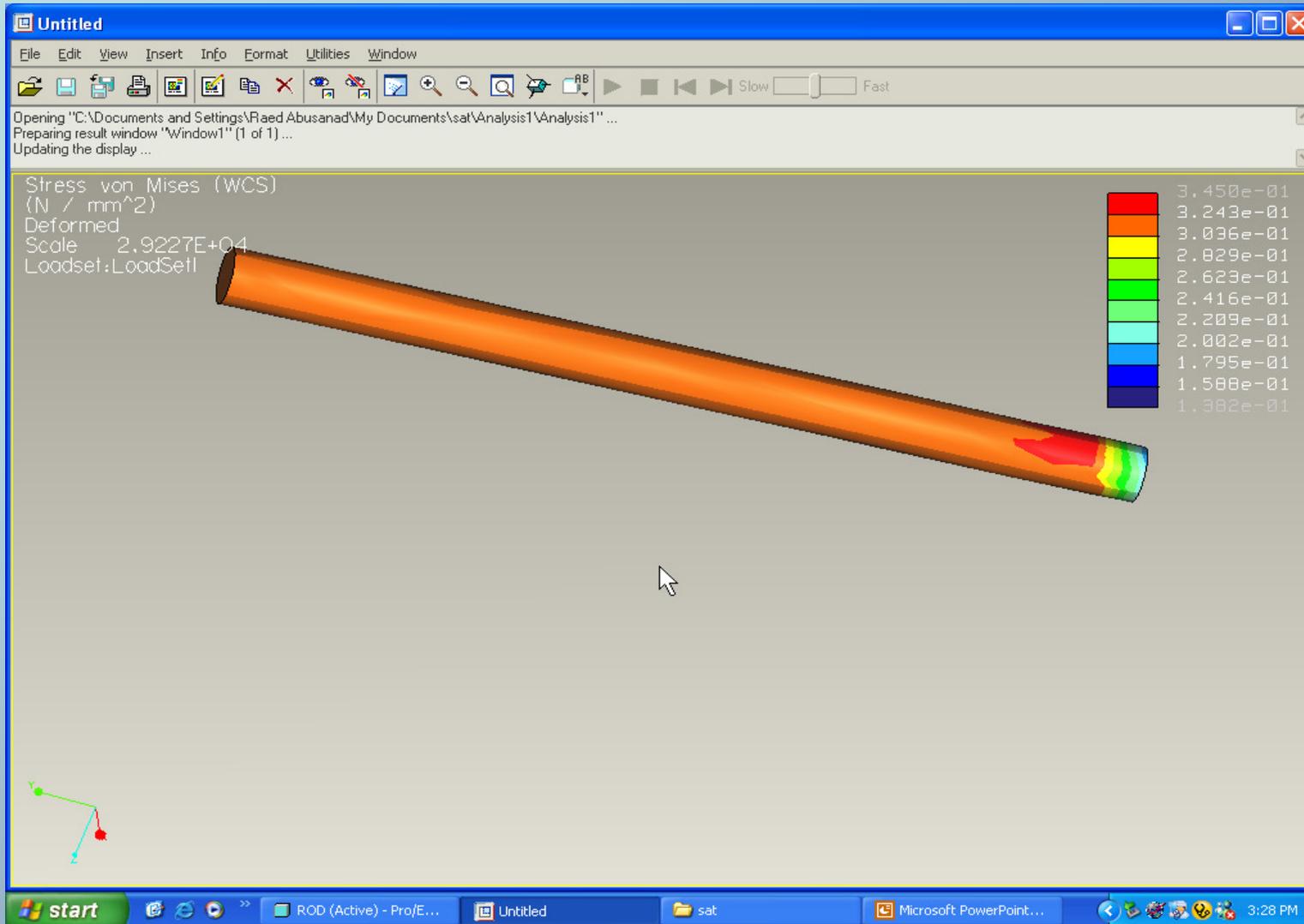


We see also the motion of the dish in the mechanism session, due to the The servomotors .i would like to refer here to the type of joints I used in To connect the motor and rod to sat stand and dish holder. The type of joint Is bearing(3 DoF).. Also I have showed the stresses on the pushing rod That is subjected to them due to the weight of dish and its components.

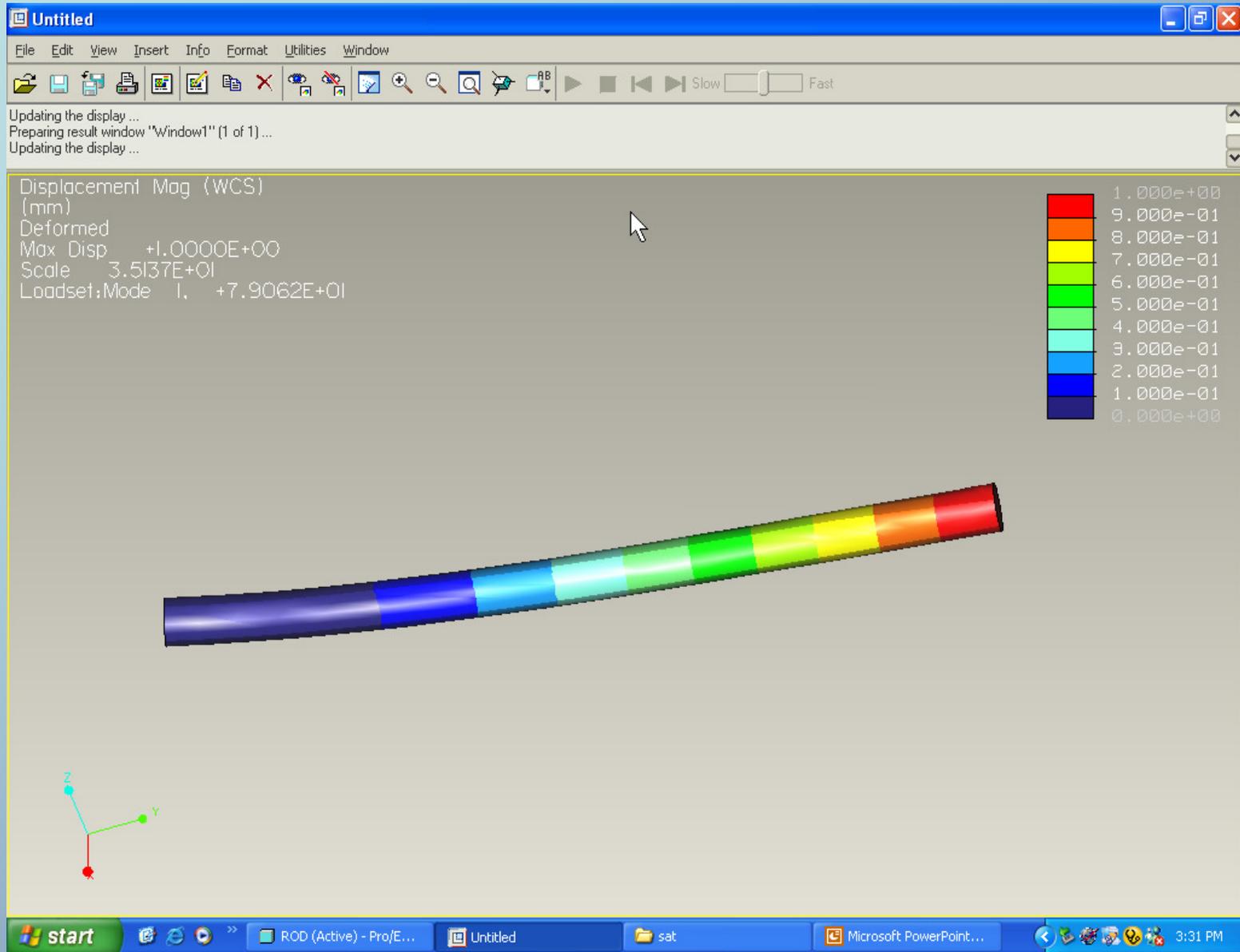


Bearing joint

pushing rod



Static analysis



Model analysis

GOOD BYE