

Nakuja internship Team meeting

Progress report format

Name: Jeff Mboya

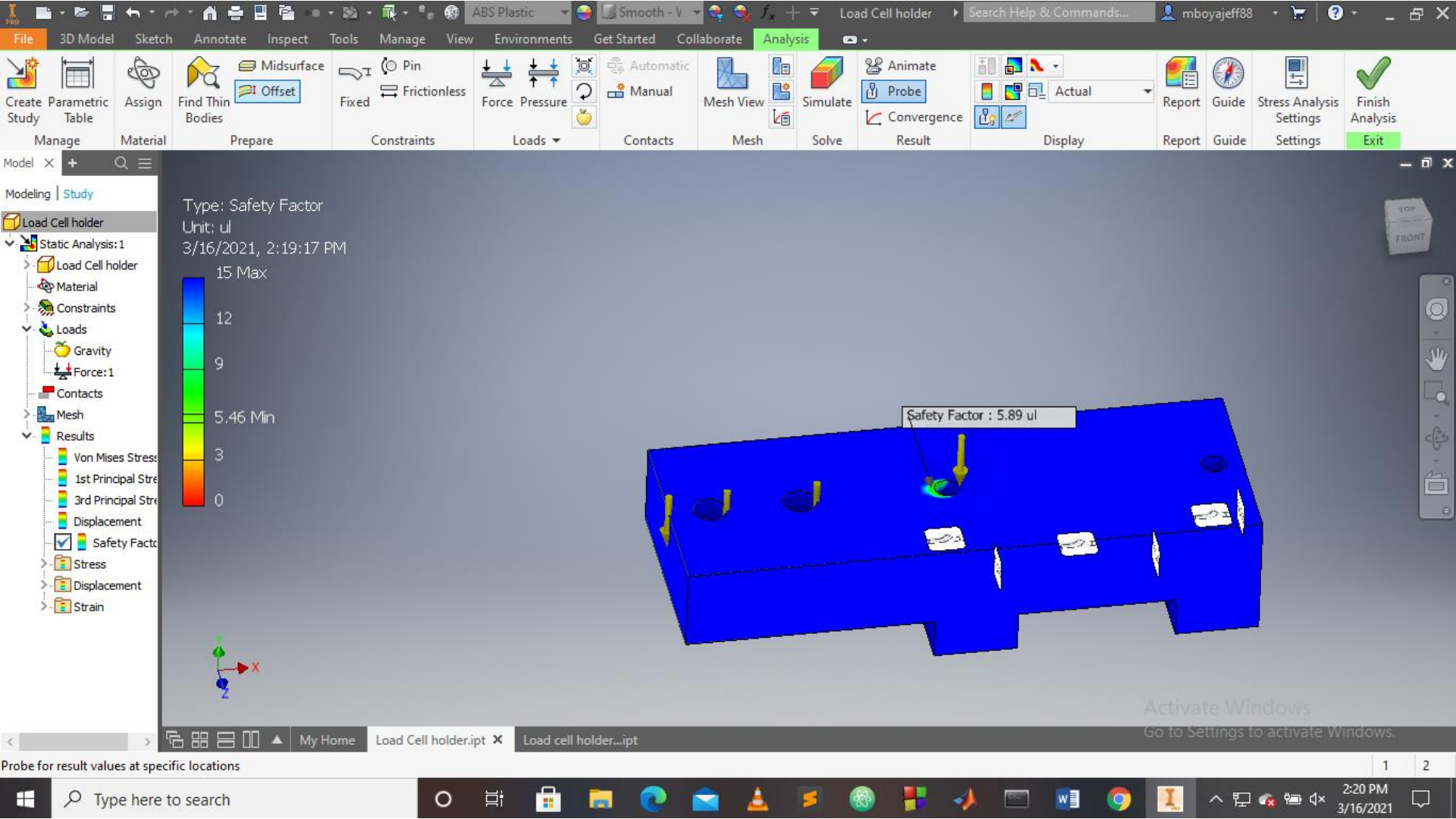
Tasks completed last week

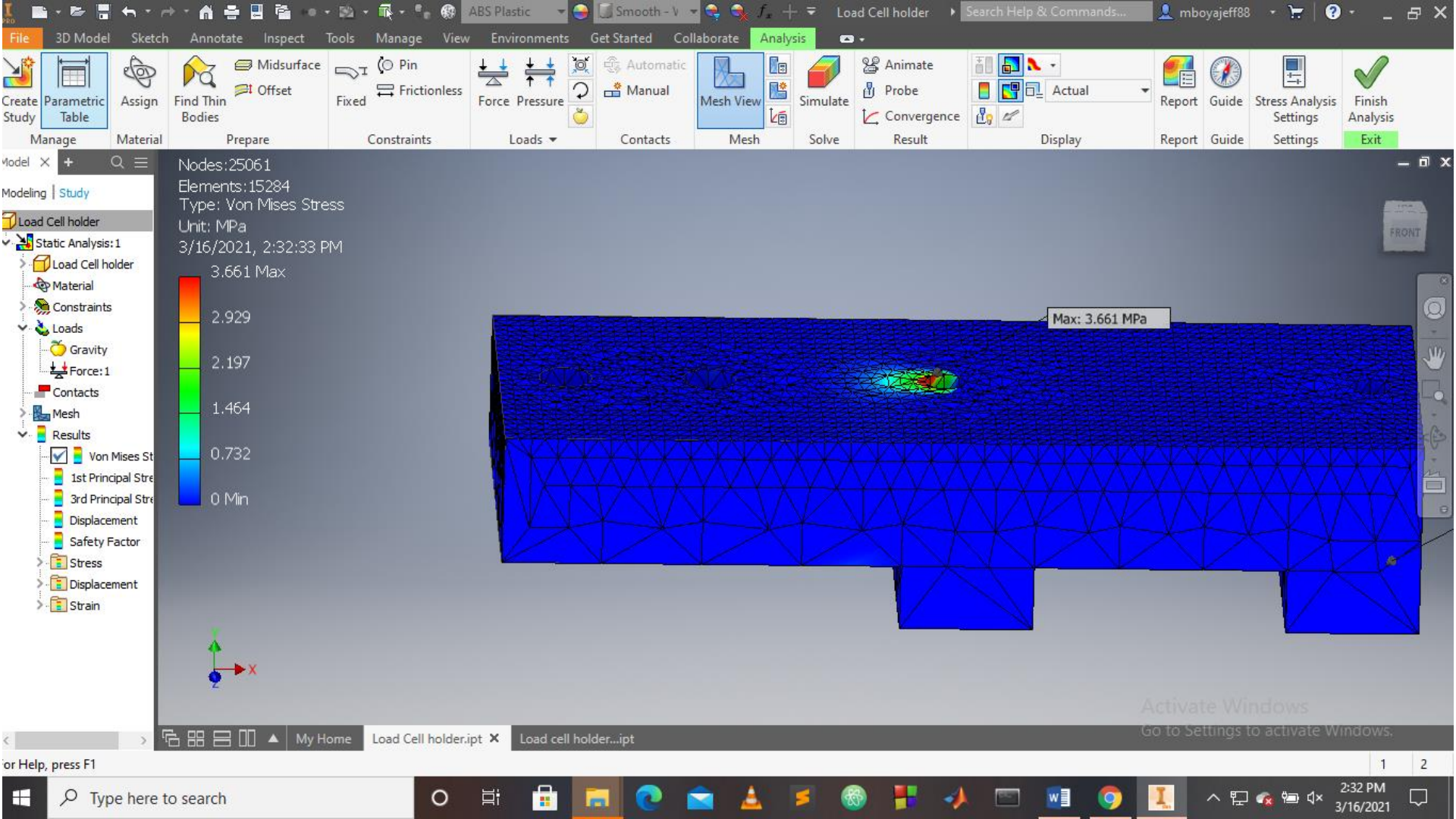
- a) Cross shaped parachute testing.
- b) FEA of PLA load cell holder.
- c) Test stand v1.2 frame fabrication

Parachute Calculations

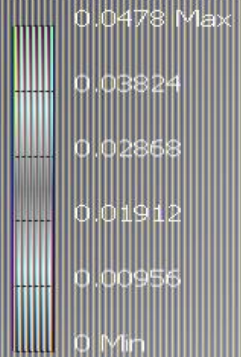
Density	1.1661 kg/m³ ▼
Velocity	3 m/s ▼
Drag coefficient	0.75
Area	2.4926 m² ▼
Drag force	9.81 N ▼







Nodes:25061
Elements:15284
Type: Displacement
Unit: mm
3/16/2021, 2:24:48 PM



Displacement : 0 mm

Displacement





Tasks in this week

- a) Casting propellant
- b) Parachute ejection testing using new nose cone

Timeline

Month	Week	Tasks
Mar	Week 1	<ul style="list-style-type: none">• Design of standard rocket motor test stand for both the N-1 rocket and N-2 rocket.• Fabrication of the designed test stand.• Tapping of the rocket motor nozzle, casing, and bulkhead.• Research on different rocket motor recovery systems.• Determination of the most suitable recovery mechanism for N-1 rocket
	Week 2	<ul style="list-style-type: none">• Continue testing the parachute.• Test stand v1.2 frame fabrication.• Program GY-271 module.
	Week 3	<ul style="list-style-type: none">• Casting propellant• Testing different parachute sizes based on parachute calculations and nose cone designs
	Week 4	<ul style="list-style-type: none">• Static firing test

Timeline

Month	Week	Tasks
April	Week 1	Design and testing of Launch pad
	Week 2	Development, testing, and integration of launch sequence
	Week 3	Static firing test Analysis of thrust data
	Week 4	Launch of N-1 rocket