## **DUMPSTER DYNAMICS**

## Space Trash De-Orbiter System Drawing Packet

EMA 569: Senior Design Engineering Mechanics and Astronautics University of Wisconsin-Madison May 22, 2025

Authors

Kyle Adler
Dominic Morand-Rivers
Martin Du Jardin
Gavin Day
Bryce Quinton

Supervisors

Sonny Nimityongskul Travis Sheperd Scott Russell

## 1 Table of Contents

## Drawings included:

- 1. Thrust Plate
- 2. Rao Nozzle
- 3. Kick Stage Engine Mount Arm
- 4. Kick Stage Engine Mount Assembly
- 5. Kick Stage Assembly
- 6. Gripping Mechanism Jaw
- 7. Gearbox Output Housing
- 8. Gripping Mechanism Gearbox
- 9. Bottom Prism
- 10. Middle Prism
- 11. Top Prism
- 12. STD Structure Assembly
- 13. Injector-Manifold Assy
- 14. Injector Plate
- 15. Forward Manifold Plate
- 16. Final Assembly

















































