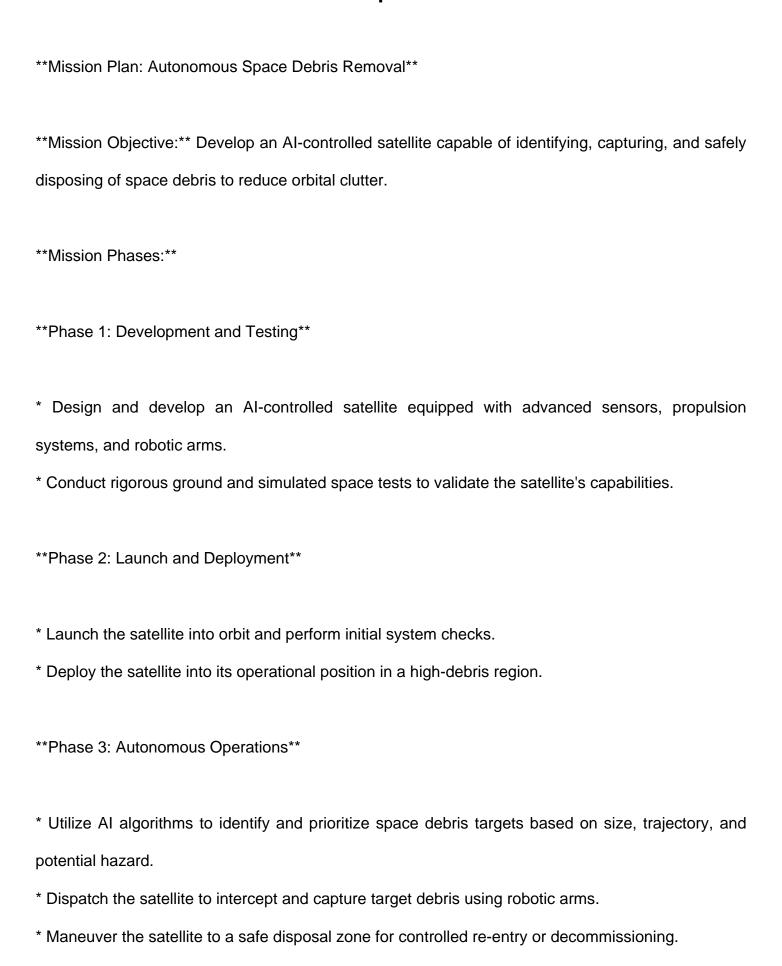
Autonomous Space Debris Removal



Phase 4: Data Collection and Analysis
* Continuously collect and analyze data on space debris distribution, size, and composition.
* Use data to refine AI algorithms and improve mission effectiveness.
Phase 5: Mission Evaluation and Refinement
* Assess the mission's success in reducing space debris and mitigating orbital clutter.
* Identify areas for future improvement and enhancements to the AI system.
Mission Success Criteria:
* Successful deployment and operation of the Al-controlled satellite.
* Demonstrable reduction in space debris density within the mission area.
* Reliable and efficient autonomous debris capture and disposal.
* Data collection and analysis that contribute to a better understanding of orbital clutter.
Project Management:
* Establish a dedicated mission team with expertise in AI, robotics, space engineering, and project
management.
* Implement agile development and testing methodologies to ensure rapid iteration and
improvement.
* Secure funding and collaborate with space agencies and industry partners.
Timeline:

- * Phase 1: 3 years
- * Phase 2: 1 year
- * Phase 3: 5 years
- * Phase 4: 1 year
- * Phase 5: Ongoing

^{**}Budget:** Estimated at \$1 billion (subject to adjustment based on project scope and complexity)