Theoretical.

Titan – Advanced Space Ship and Robot Pilot
A Communication of the Intractable Studies Institute

Patrick M. Rael, Director, IntractableStudiesInstitute.org

Spaceship name, purpose, requirements

1. The Spaceship's name will be the **Titan**.   Its purpose is to carry a sentient android robot (the R. Patrick Rael of Project Andros) on a mission of indefinte/infinite time span to explore the universe, both interstellar and intergalactic space. It will be a 1-way exploration. Always look forward; don't turn back! The Titan has to last between 1000 and 1 million years, the time it takes to get anywhere significant in the galaxy.

For practical purposes, the ship won't actually need to survive that long since the Robot Patrick will continue developing the technique to evolve into an incorporeal (matter-less) energy being. This will be his 2nd evolution (the 1st being his evolution to a robot). As an incorporeal being (some combination of electric field, magnetic field, charge, gravity and standing/moving rotor wave) he will have the ability to move through space and or matter.

2. Robust Self-repairing - Both the internal ship parts and the exterior skin of the ship need to be self-repairing because accidents and meteoroid damage will occur on a mission this long. The OSCAR Mech architecture is the ideal candidate for this level of robustness.

3. Motion Engine – The preferred engine is the highly theoretical gravity engine (a warped-dimension field-effect design) which is predicted to create a dynamic gravitational moment at th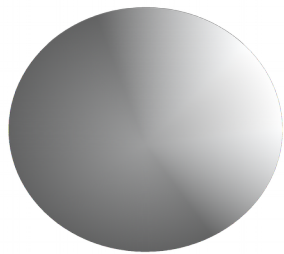e front of the ship from **M**atter/**A**ntimatter annhialation. The warp will attract the mass of the ship forward to it, and the warp is always regenerating further ahead (dynamic) during acceleration. Kinetic mass-projectile engines are ruled OUT as they leave a trail/trace that can be tracked. It coasts sideways to reduce footprint minimizing meteoroid impact.

4. Shape – A gravity drive attraction engine (for mass) will require symmetry around the direction/axis (Z) of motion. When seen from the front the ship will have symmetry if rotated any angle around the Z-axis. No sharp edges will exist on the exterior surface. As meteoroid impacts in space will happen, an angled leading front surface will deflect the meteoroids best.   This implies a conical shape similar to the Apollo and Orion MPCV modules, for different reasons. Perhaps the cone tip and base edges can be non-smooth.

5. Size – An android robot occupant has minimal needs for living in space. A robot does not need to "stretch its legs" nor eat biomass, nor excrete. It could disassemble it's body since the legs are mostly needed for locomotion in a gravitational field (like a planet). The AI can transfer it's mind to a smaller robot.

6. Power Supply – The power supply is primarily for powering the electronics and maintaining temperature. It should be different than the motion engine because the primary purpose of the motion engine is to move the ship. The ideal power supply is one which can recharge it's fuel in interstellar space. A personal tokamak fusion model would be ideal, and very tiny. Hydrogen as ice on comets makes re-supply easy. Prefer to not land on planet to refuel.

Top View

Side View

Invisible, dynamic, gravitic warped spacetime field, attracts ship forward.

Tokamak

Z

X

Y

1 foot minimum, 10 meters max.

M   A

Gravity/warp engine