

AERO4701 Assignment 1



STUDENT PLAGIARISM: COURSE WORK - POLICY AND PROCEDURE COMPLIANCE STATEMENT

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I/We certify that:

- (1) I/We have read and understood the *University of Sydney Student Plagiarism: Coursework Policy and Procedure*;
- (2) I/We understand that failure to comply with the *Student Plagiarism: Coursework Policy and Procedure* can lead to the University commencing proceedings against me/us for potential student misconduct under Chapter 8 of the *University of Sydney By-Law 1999* (as amended);
- (3) this Work is substantially my/our own, and to the extent that any part of this Work is not my/our own I/we have indicated that it is not my/our own by Acknowledging the Source of that part or those parts of the Work.

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Date: 24/3/16

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1. Introduction

2. LIT REVIEW

2.1 What

What are you trying to achieve?

- active shielding of the satellite from
 - solar rad (deep space mission)
 - galatic rad (deep space mission)
 - van allen belts for Earth missions solar events

2.2 Why

Why is it important?

- currently all satellite constructions that will be exposed to the raidation must be radiation hardened costing?? or only have a short mission lifetime and the entire satellite is considered disposable.
- passive shielding requires extra mass

2.3 Difficult

What is this difficult to acomplish?

- need to build for the space environment
- must be reliable as once it is launched it cannot be fixed
- still needs to allow EM to pass for communication and for solar power (especially Earth orbit missions)
- 2.4 What have others done?
- 2.5 What will you do?
- 3. RESOURCE PLAN
- 4. RISK MANAGEMENT