**BLUESAT**

Student Satellite Program

Progress Report: 09/06/12

**Executive Summary**

Major planning meetings took place on 02/06/2012 and 09/06/2012. Satellite design focus has shifted from broadness of functionality to robustness of buss functionality. LTP has been cut due to time and resource constraints and focus taken off bespoke Payload software design.

Resources have been re-directed toward creating a more robust power distribution system. See attachment A for proposed design changes and project planning implications.

Extra internal ‘release’ milestone has been added to the Gantt Chart, with date coinciding with the result of the major design review to occur during July. See Attachment B for detail and planning of the internal release.

Gantt Chart has had a major revision to reflect changes mentioned in this document.

It should be noted that between the dates of 09/06/2012 and 25/06/2012, all UNSW students are currently undertaking semester 1 exams. As such tangible progress is expected to be slowed The Project Plan has taken this into account.

# Progress Report - (Gantt Chart Changes in red italics)

## 2.1 Amateur Radio Licensing and Testing

* *Next available test date is end of July*
* *Completion date changed to reflect this*
* Does not affect any other points on the Gantt Chart

## (Formerly 2.4.2, now struck) - LTP Development and Testing

* *LTP feature has been struck from the project to free up resources on more vital satellite functions*

## 2.4.2 Beaglebone software development

* On hold due to lack of resources. Will re-evalute post exams

## 2.4.3 Beaglebone design integration

* On hold – to be absorbed into task 2.4.12

## 2.4.4 Battery Charge design

* *End date moved to the end of June*
* Lack of resources and complications in research and development
* Requires one further circuit revision and software update.

## 2.4.5 Antenna foothold mounting and Material.

* On hold due to lack of resources
* Preliminary investigations show that the final steps needed will be extremely simple
* Consultation request will be sent to Thales at the end of June
* *Resume date has been moved to after exams*

## 2.4.8 Tray 2 PCB Layout and Routing

* *Completion date delayed to the end of July due to dependencies not being able to be completed on time*

## 2.4.9 Battery Mount Design

* Preliminary investigation shows that solution will be simple to implement
* *Currently on hold; Resume date moved until the 25th of June due to lack of resources during exams*

## 2.5.2 Telecommand testing

* *End date moved until June 9th.*
* Current system is overly complicated; simple redesign required.

## 2.5.5 Telemetry Testing

* On hold due to lag with prototype production

## 2.6.4 Mechanical Model Touch up

* *Completion date delayed due to lack of resources*
* Report sent to Thales; awaiting response