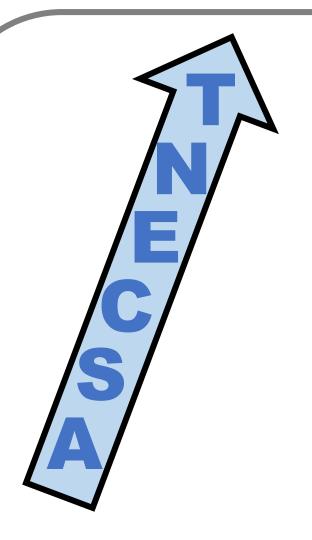


Prototype Slow-Scan Transmitter

Prototype a slow-scan transmitter using an embedded platform

Job Jar



and



What's Happening?

RT-IHU (Zach Metzinger)

- Objective
 - Develop RT-IHU
- Current Activity
 - Assemble V1.1 Development Boards
 - Result is 5 more assembled V1.1 RT-IHU boards.

ASCENT PACSAT (Bill Reed)

- Objective
 - Develop digital packet communication payload
- Current Activity
 - Team Lead

ASCENT PACSAT (Jim McCullers)

- Objective
 - Software
- Current Activity
 - PACSAT
 - Assemble RT-IHU Breakout Board
 - Result is two RT-IHU breakout boards
 - Ordered headers
 - Hopefully progress this weekend
 - Change connection on debug boards
 - Result is 12 debug boards
 - DONE!!!

ASCENT Structure (Tom Karnauskas)

- Objective
 - Develop 3U space frame
- Current Activity
 - Design 3U frame
 - Looking into the options for an assembled frame

Fox-Plus Structure (Thomas Wu)

- Objective
 - Fox-Plus Structure
- Current Activity
 - Research ISISpace component options for inclusion in 1U Fox-Plus

Fox-Plus Systems Engineering (Mike Moore)

- Objective
 - Advance systems engineering tasks
- Current Activity
 - Begin working on power budget

Fox-Plus RF (Mike Swiatkowski)

- Objective
 - Develop radio-chip-based SDR
- Current Activity
 - Design voice FM transponder board

Fox-Plus Flight Software (Cameron Mahaffey)

- Objective
 - Fox-Plus flight software
- Current Activity
 - Get familiar with the flight software

Fox-Plus Flight Software (Dave McCoy)

- Objective
 - Fox-Plus flight software
- Current Activity
 - Get familiar with flight software

Fox-Plus Flight Software (Chris Grill)

Objective

Fox-Plus flight software

Current Activity

- Identify Goals of Generalized LTM
 - Result is a list of desired changes in the LTM software better supporting the varying needs of different recipients.
- RT-IHU Debug Cable
 - Result is a small board containing the debug circuitry and cabling for the TMS570

Fox-Plus Flight Software (Heimir Sverrisson)

- Objective
 - Fox-Plus flight software
- Current Activity
 - Flash Loader
 - Result is an updated flash loader to load the RT-IHU board

ASCENT Reaction Wheel (Tom Davis)

- Objective
 - Develop reaction wheels and motor control algorithms
- Current Activity
 - Design Reaction Wheel controller board

ASCENT Deployable Solar Panels (Vincent Risalvato)

Objective

Develop deployable solar panels

Current Activity

- Design solar panel and hinge solution
 - Result is a model of solar panels and hinges that fit in the pockets of the currently envisioned 3U structure.
 - Are we ready to prototype real hardware? Any luck getting cells?

Modeling (Marwan Aylouche)

- Objective
 - Develop Fox-Plus Models
- Current Activity
 - Model Fox-Plus with ISISpace candidate components
 - Currently looking to reduce space required to mount AMSAT boards