Manual for Starting a University Pico Satellite Project

Group: 8

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Team and Motivation

• Students need direction/supervisor
• Level of Research
  – Undergraduate
  – Interns
  – Masters
  – PHD
Mission

• Manual is going to be independent from any mission or satellite size
• Subsystem design
Launch

• Share
  – NOTE: Don’t forget the offset price. (paperwork etc)
Ground Segment

• Ground station
• Software
• Operations of the Satellite
Legal Issues

• Frequency allocations
• Suggestion: Amateur band usage (UHF/VHF) - ITU
• ITAR!!!
Management

• Timing, gannt chart
• Documentation (list of components, report,
  – Not a template
Testing

• Environmental Test
  – Minimum Requirements
  – Necessary equipment (from basic to complex)

• Functional Test
Usage of the Manual

• Free to download
  – Inputs as comments, chapters, graphs etc.
  – Dedicated forum
Funding

• Country dependent
  – PR is importnat
Manual Hosting

• On UNISEC webpage
• A dedicated moderator is necessary
• Regular updates
• Lots of tables, charts, graphs
  – Pictures are universal
• Translation in to different languages
Thank You