

Microsite Outline

Project Title: Spacecraft Communications Website

I aim to create a website that presents the various components of spacecraft communication in sections. Then specific pages for each section will be linked. As we all know, there will be plenty of space photography and interesting technology diagrams to put content onto the pages.

Page 1: Homepage

A main page would give a visually appealing, space-y presentation of what communications do on spacecraft with large banner images and high level text.

- Introduction: The important roles of communication technology in spacecraft. Also big name space missions that are involved with it.

Page 2: Basic Concepts

High level introduction to communication network/signal concepts

- Frequency, Bandwidth, and Gain
- Bits and Bytes
- Wireless communication technologies

Page 3: Types of Communications

- Bandwidth types (Ka, X band)
- Advantages Comparison
- Applications

Page 4: Hardware

The kinds of physical technologies used in spacecraft

- Antennas (high, medium, low gain)
- Amplifiers
- Space-grading hardware

Page 5: Sources

- Photo appendix
- Citations to readings