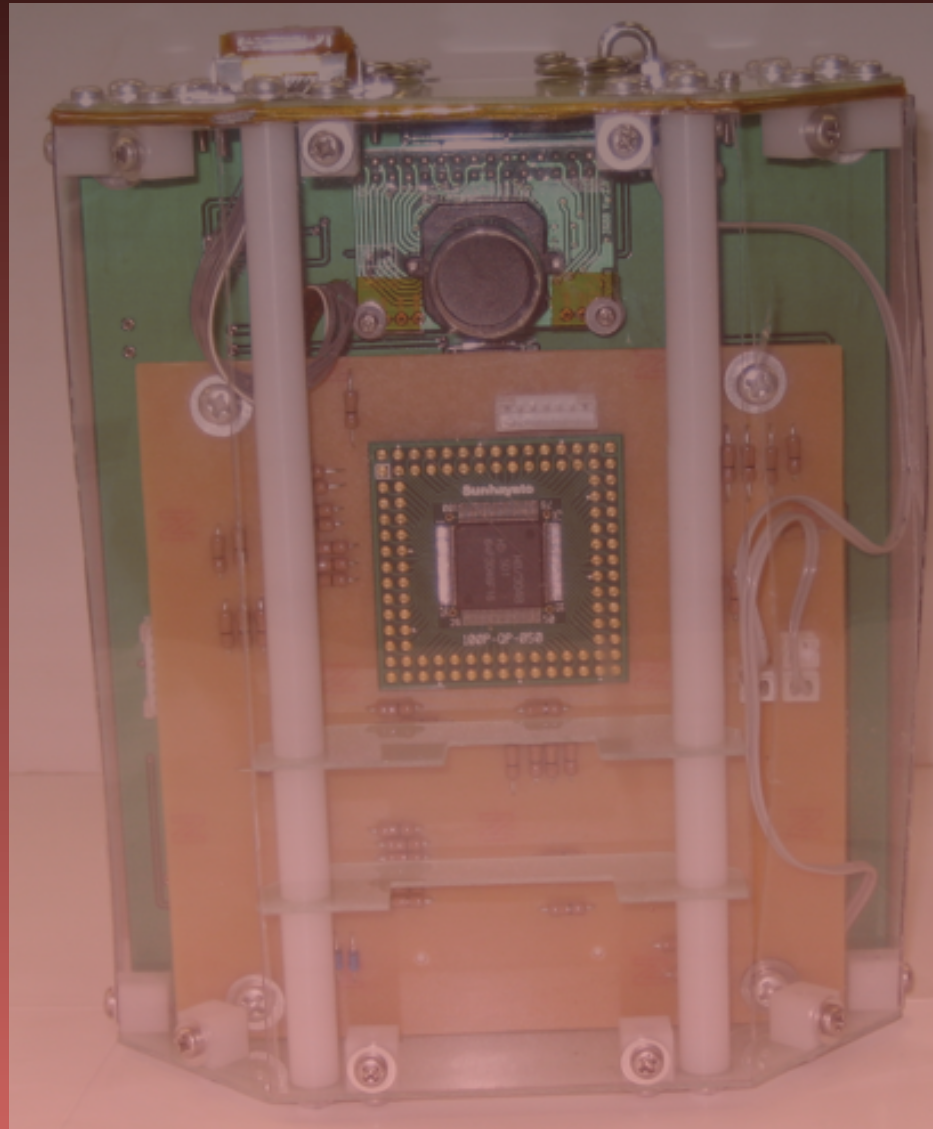


Nihon University



- Demonstrate Function of SPROUT -
SPROUTCan



- Many Sensors Data & Fly Back-
CBC

Nihon University Team-Member

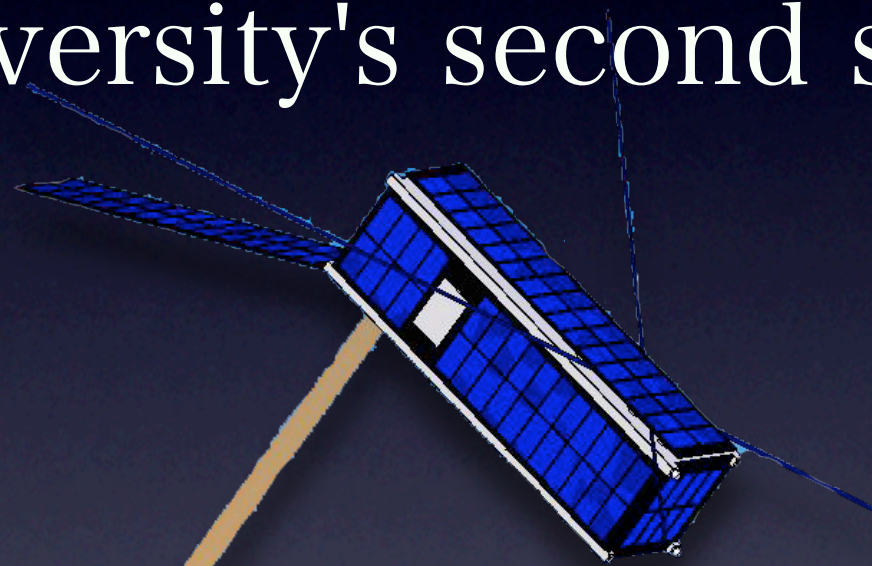
- Kousuke Arita
- Akira Urita
- Akira Yamaguchi
- Soutaro Hashiguchi
- Yuta Araki
- Takafumi Masuda
- Takashi Kameyama
- Junya Taneda
- Masahiko Yamazaki
- Yuta Chiba
- Yuta Kujirai

SPROUT-Can

Nihon University

Purpose

- Prove the function of SPROUT that is Nihon University's second satellite.

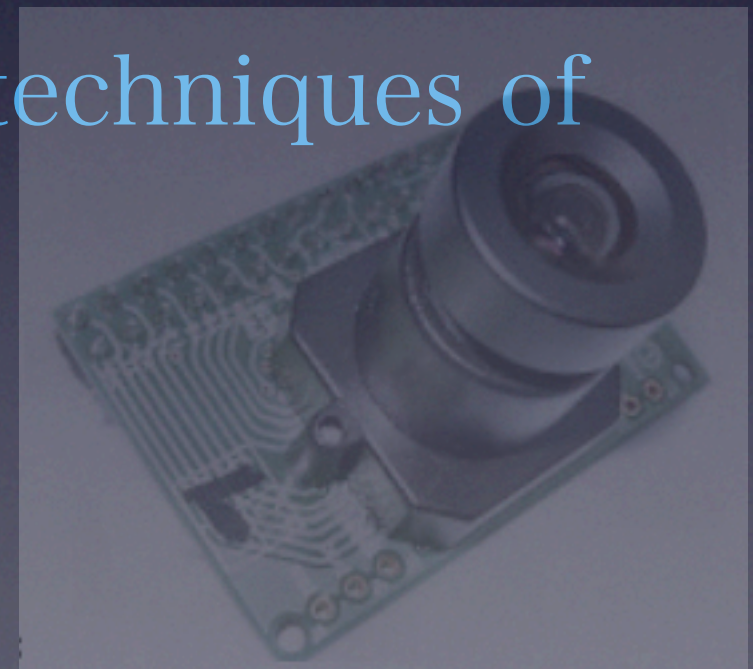


SPROUT

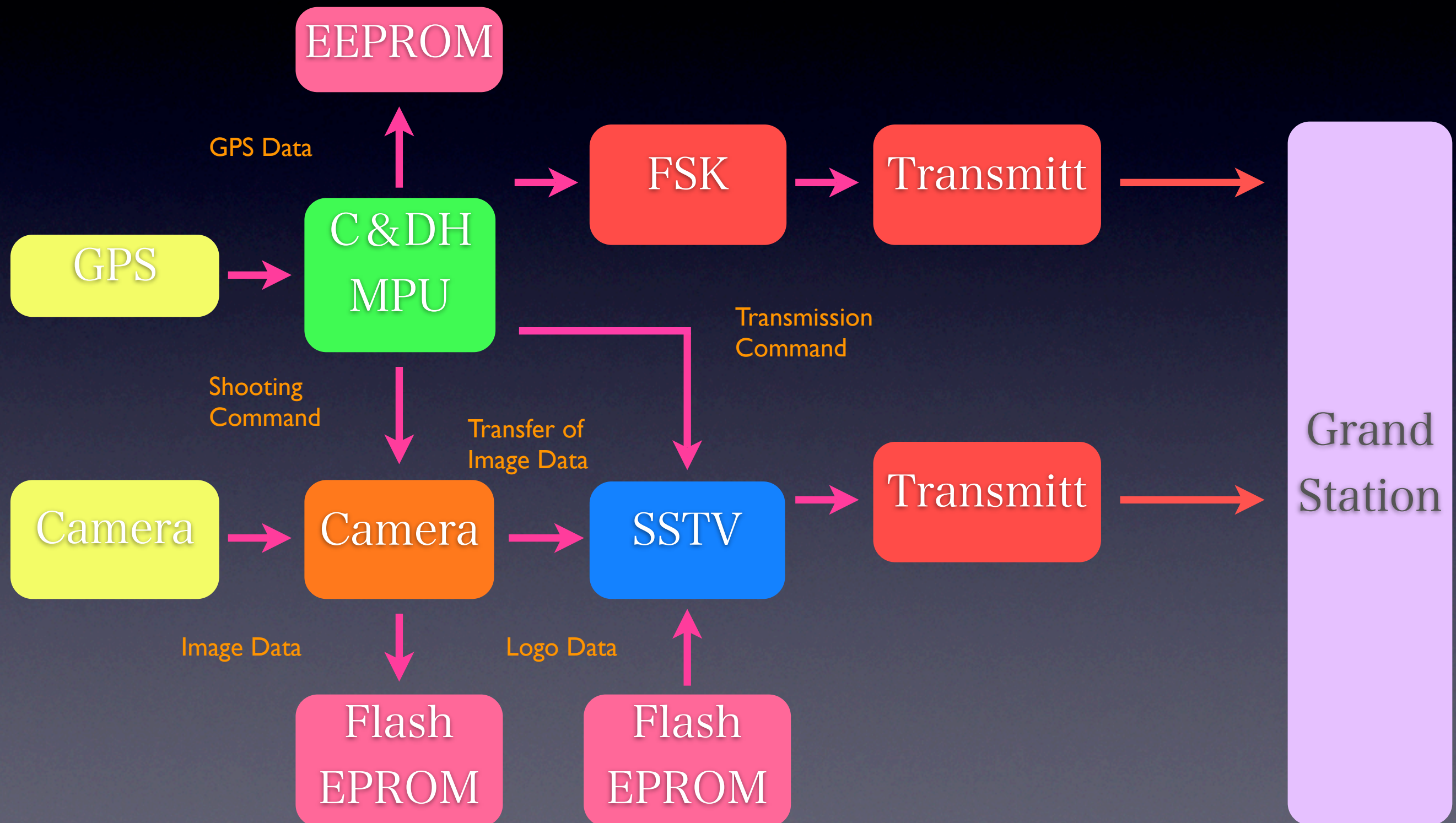
(SPace Research On Unique Technology)

Demonstrate of function

- Demonstration of Transmission technology of SSTV signal.
- Demonstration of scanning techniques of CMOS camera.

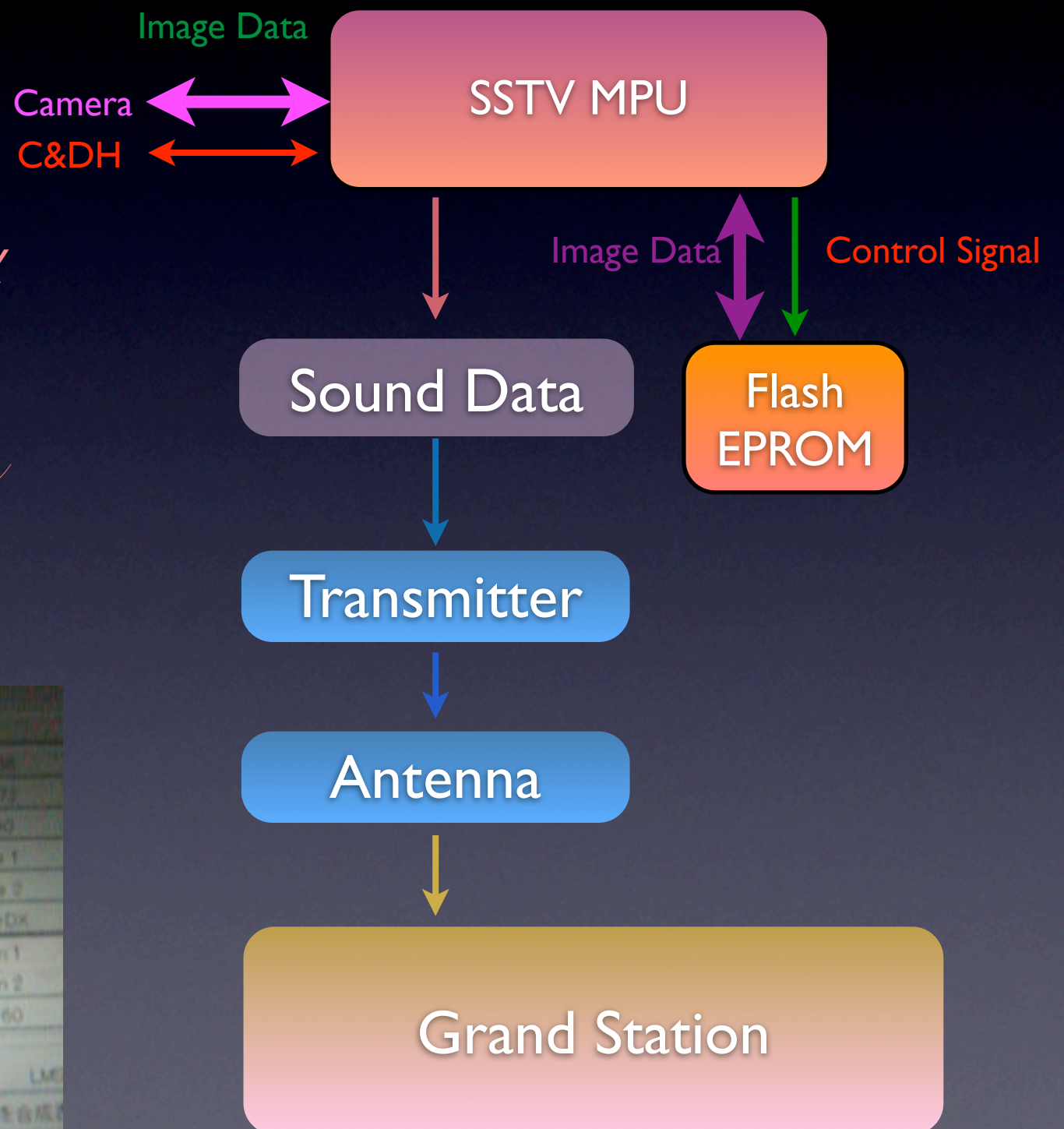


Overall System



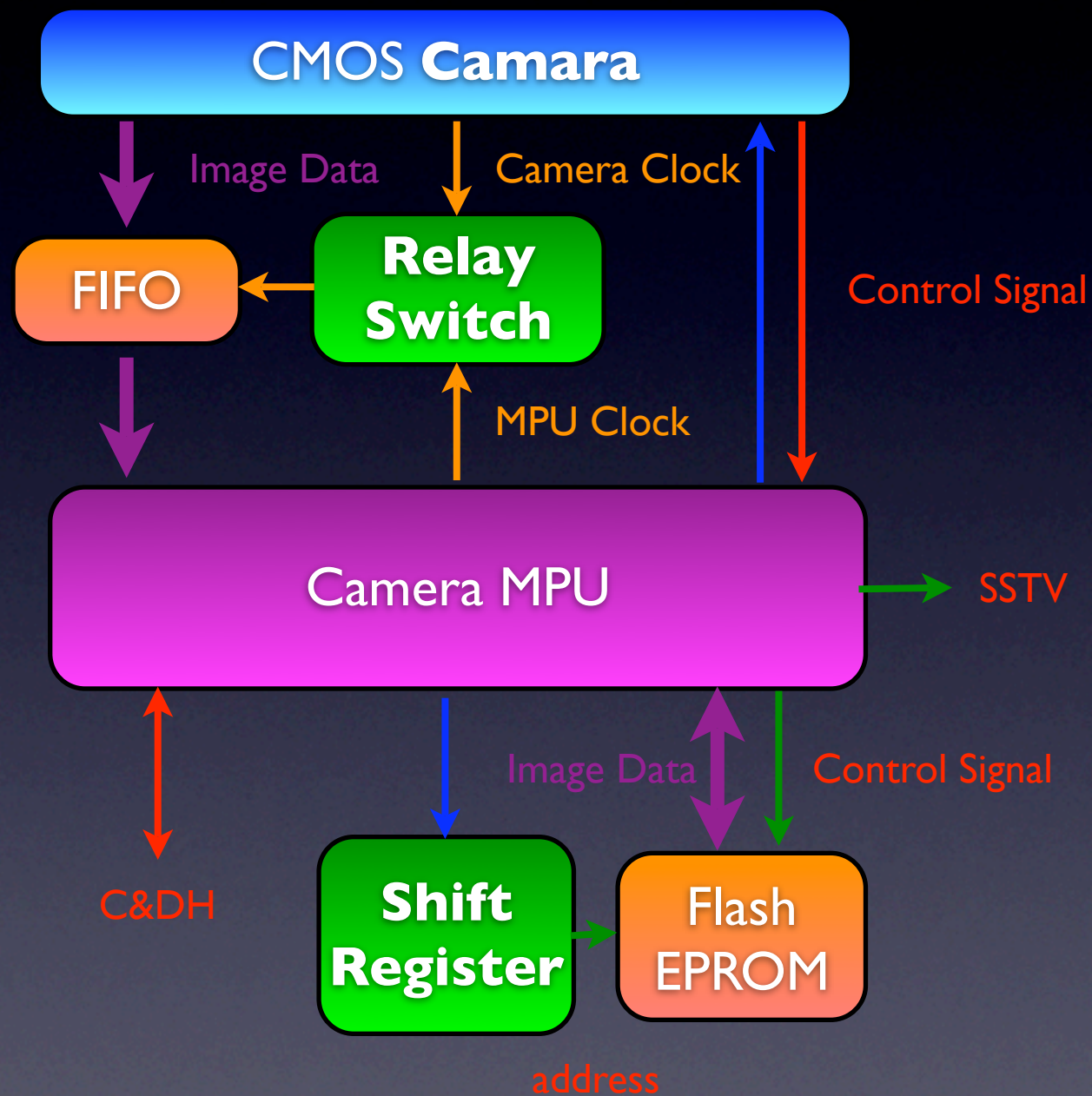
Transmission of SSTV

- *SSTV is abbreviation of slow scan television.*
- *RGB data is changed into the sound data and it transmits.*
- *Even general people can enjoy it with free software.*



Taking a picture with Camera

- *The number of pixels of cameras
300,000 pixels or less.*

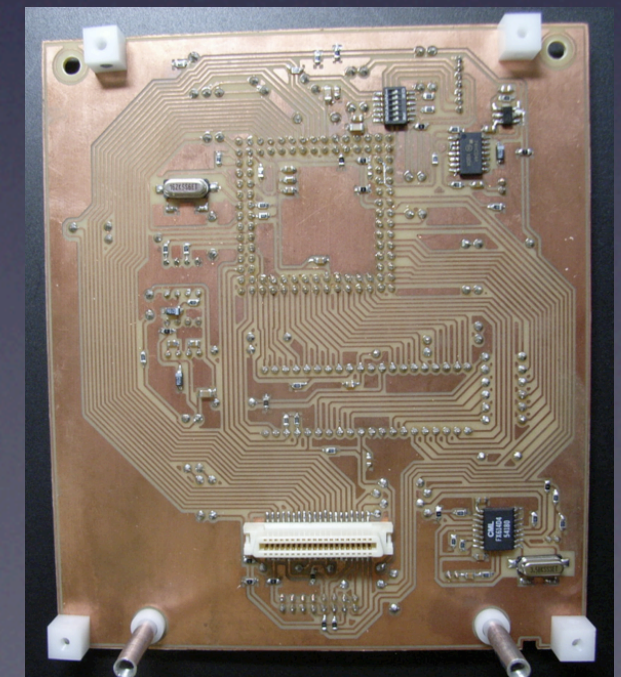
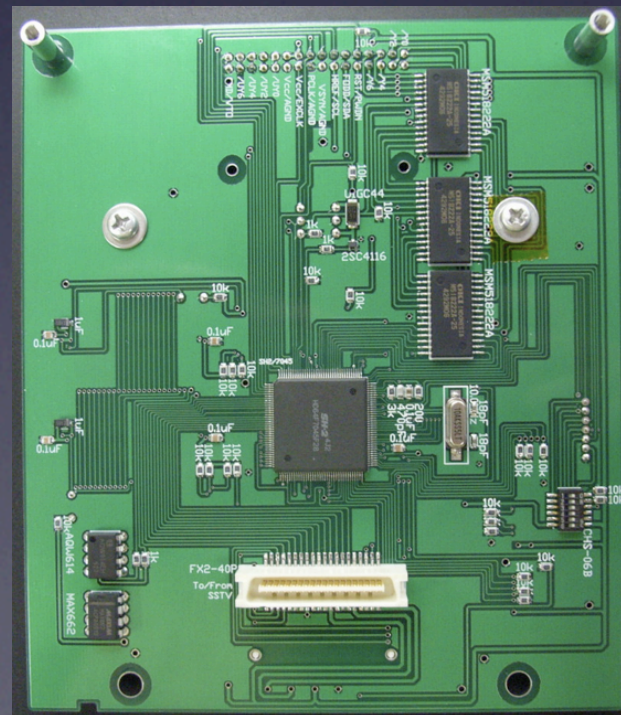
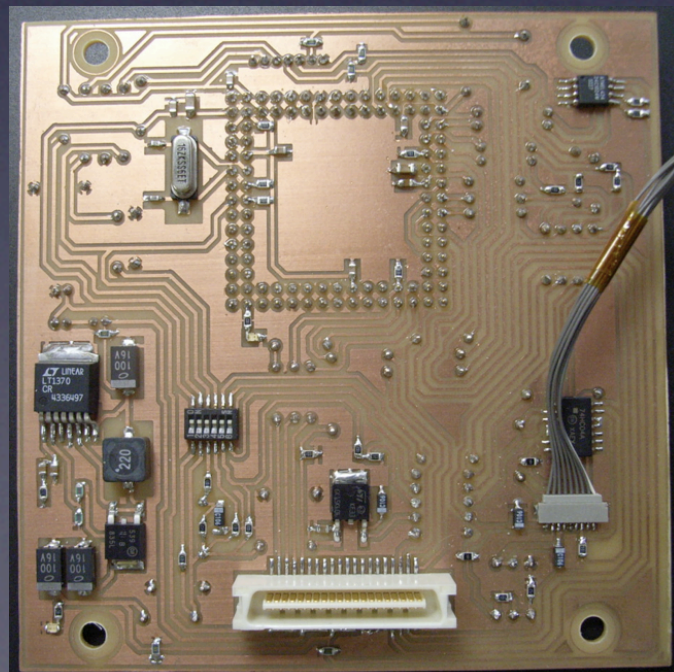
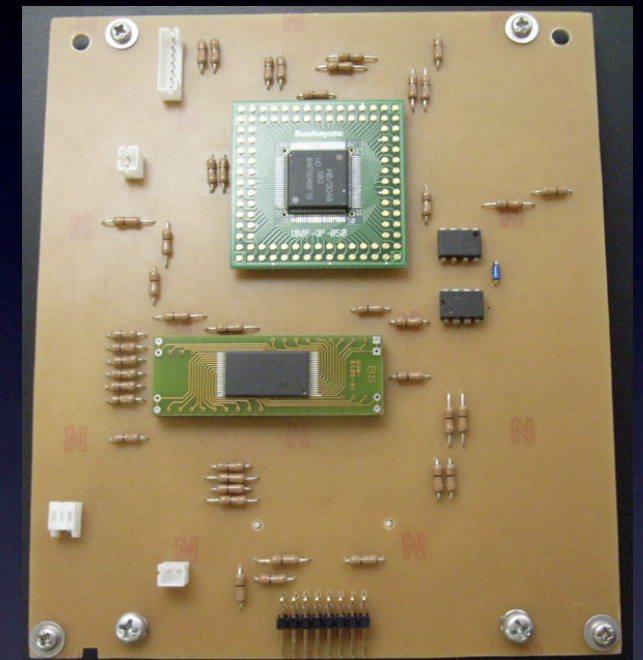
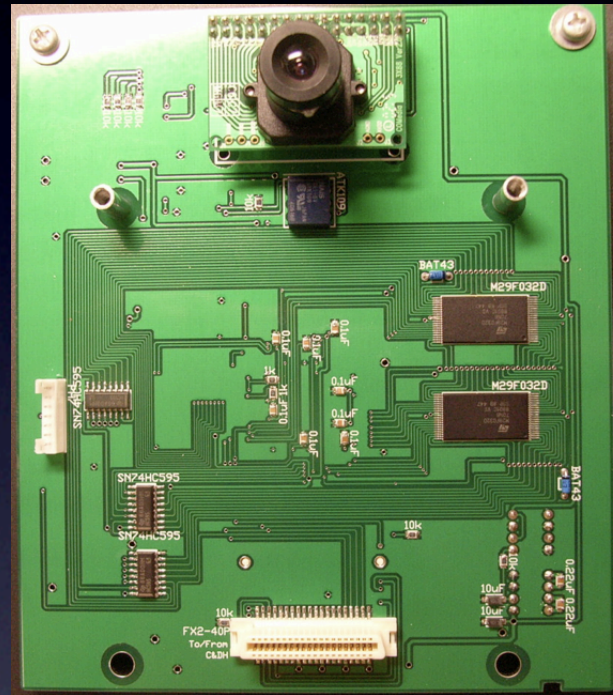
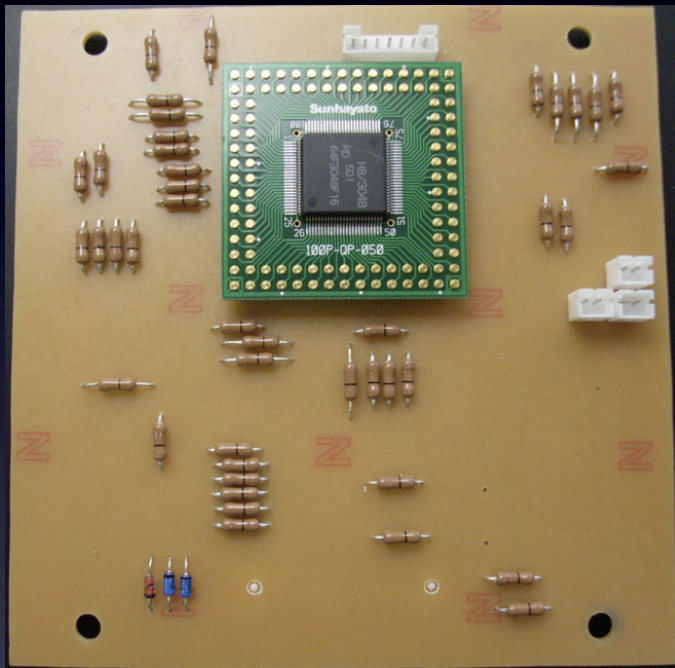


Substrate

C&DH

Camera

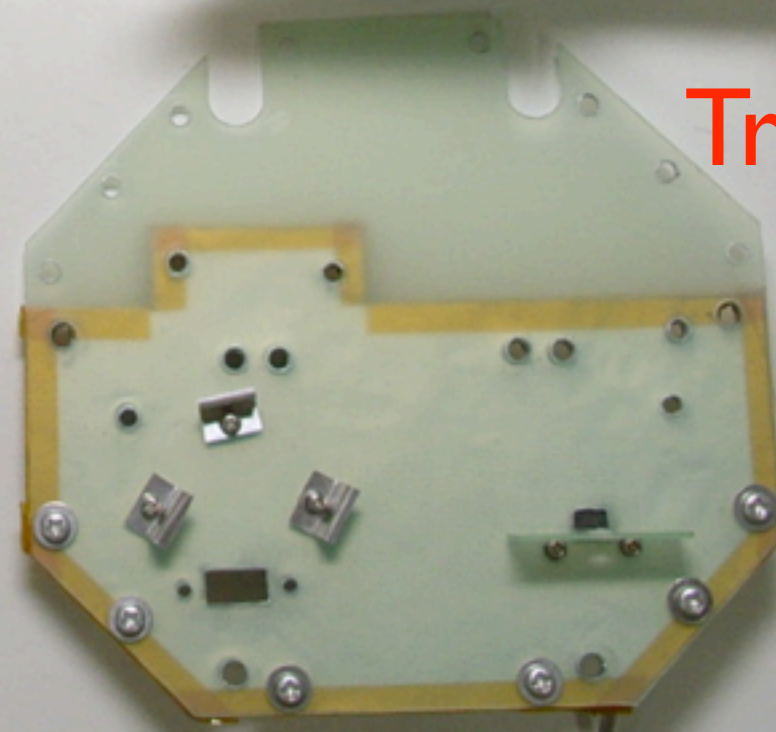
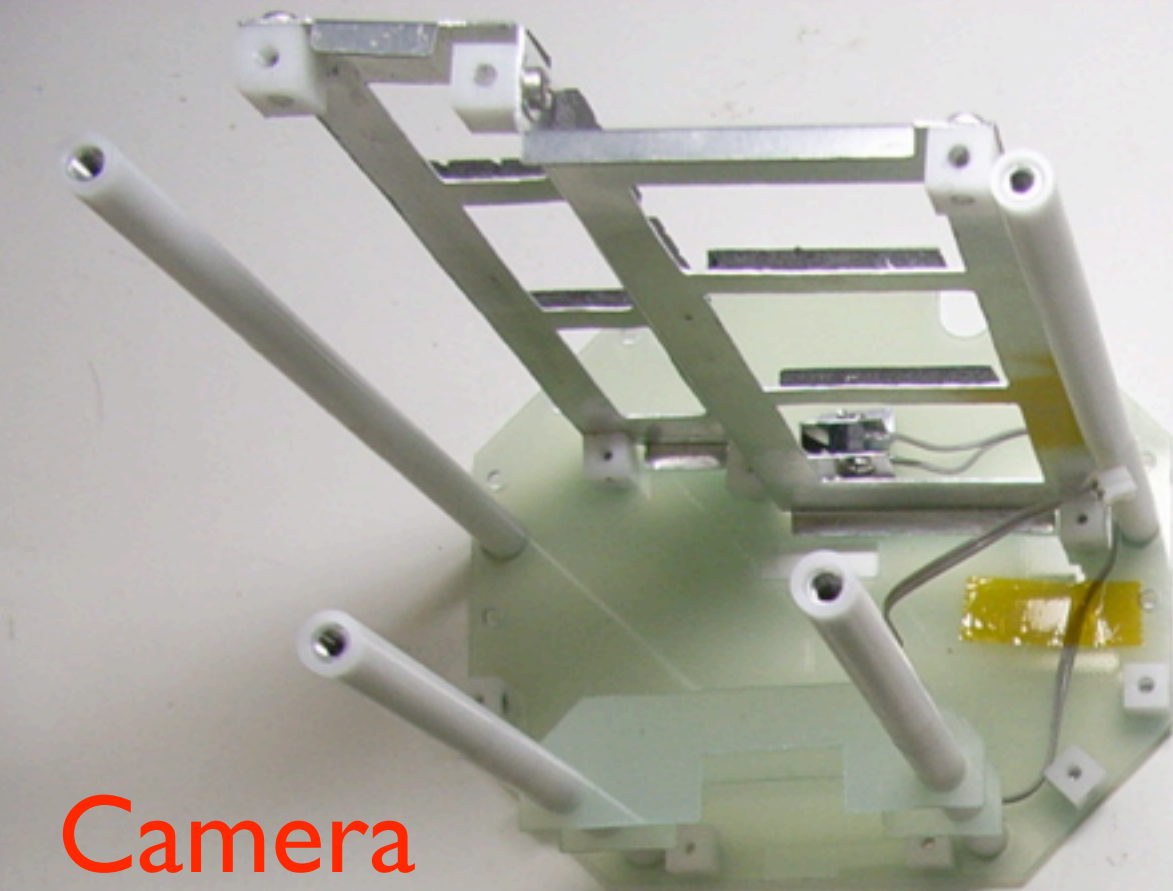
SSTV



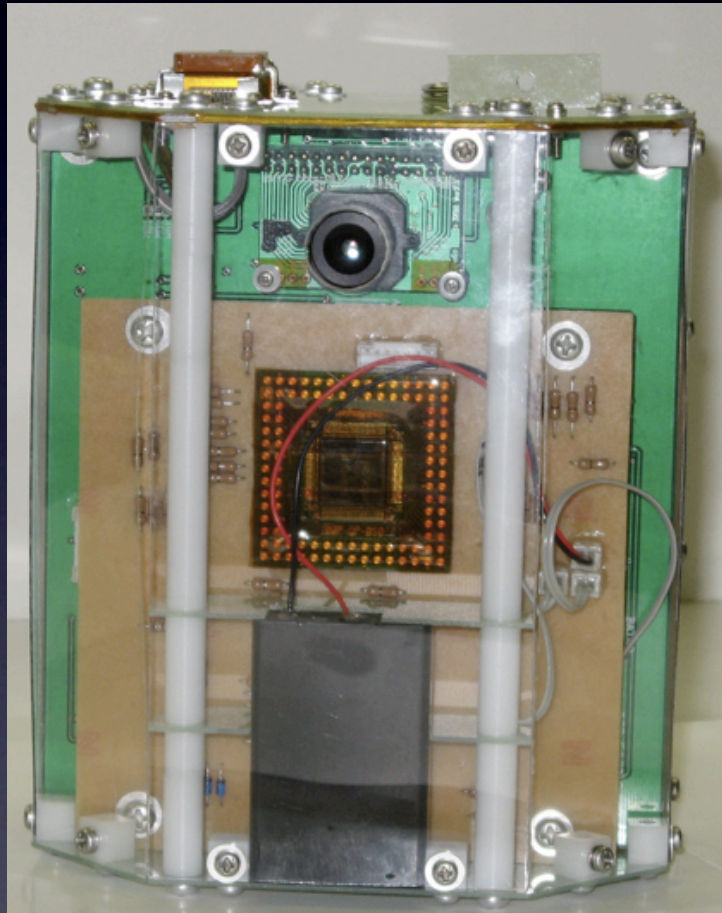
Camera

GPS

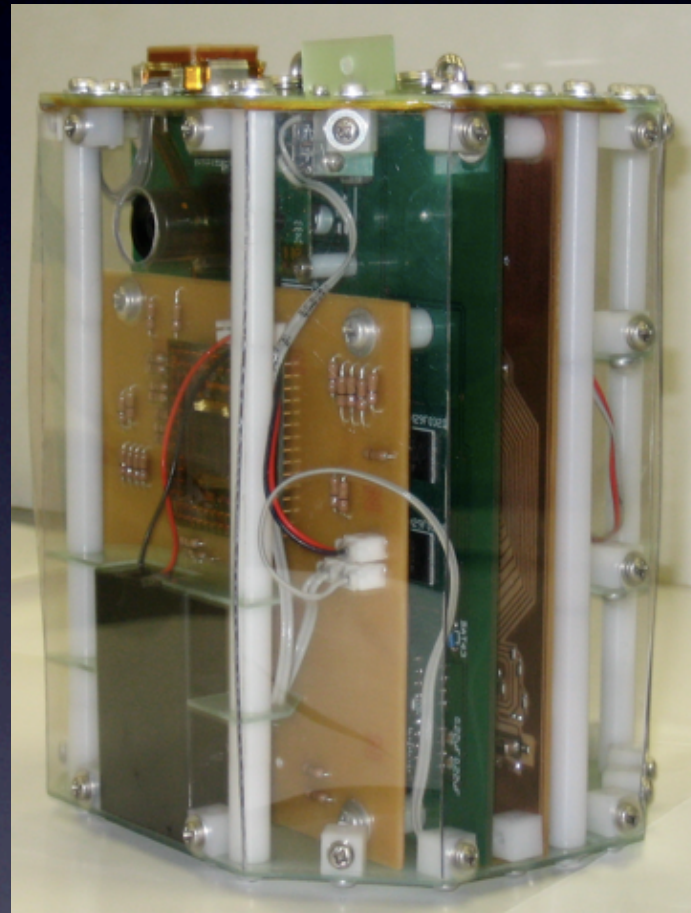
Transmitter



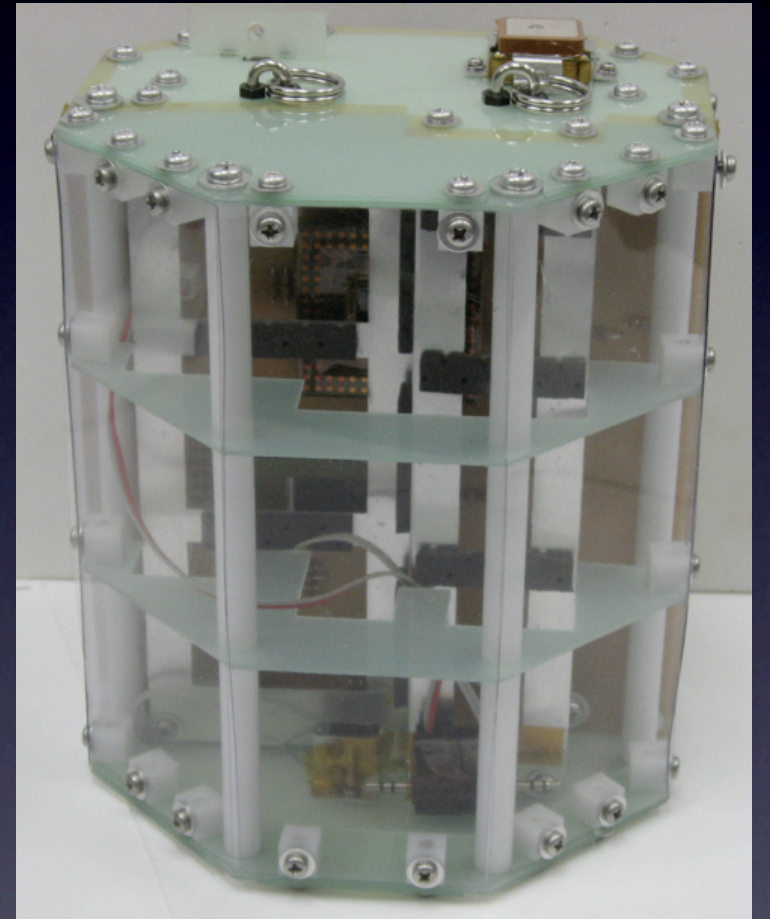
Overall Design



Front

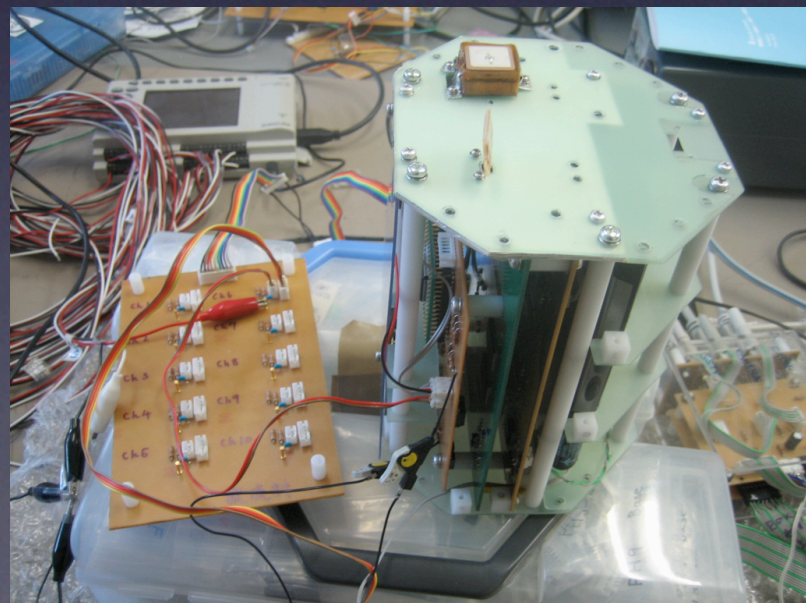
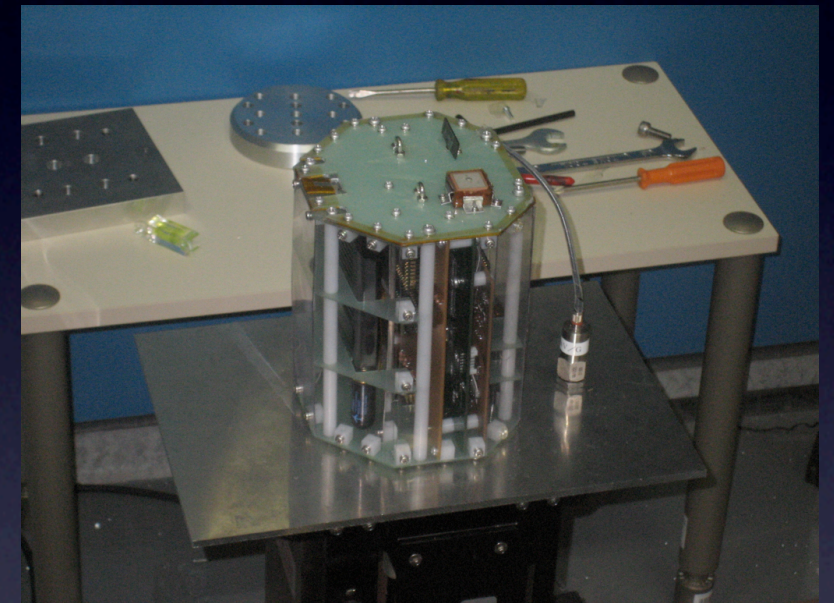


Side



Back

Overall system functional test



Result of SPROUT Can

1st Flight's Result

Our CanSat was spiraled.

2nd Flight's Result

- Camera Mission
- SSTV Mission

Under analysis

Completed!

Result of Flight ~ Camera&SSTV~



Take the Picture → Transmit Image Data by SSTV

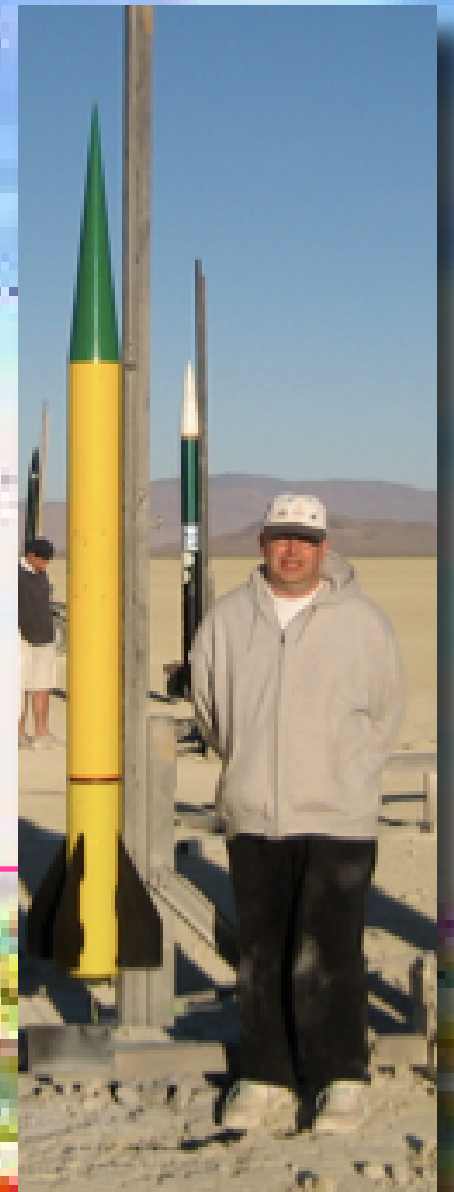
Today's Morning Result!!

Ken Biba (1st Flight)

Thank you very much!

Jamie Clay (Today's Flight)

Thank you very much!



*Please state your opinion with relation to this
CanSat !*