

Keio Univ. Team Wolve'Z ARLISS 2008 Student Presentation

Sep 20,2008

@Bruno's Country Club
PM: Yuta Kobayashi



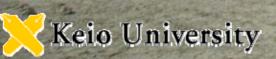


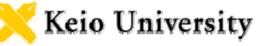
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Member



We belong to Yoshida and Takahashi Lab of Keio Univ.

ARLISS 2008: 4members

PM: Yuta Kobayashi

AM: Yohichiroh Kusuda

Other members:

Yoshihiko Mikami (Nice I

Yuya Kakehashi (Nice Ca

Other members (in Japan):

Yuta Nakajima, Syota Tobimatsu, Masataka Tanaka, Seiichiroh Yamamoto, Naoko Matsubara, Ryoji Kosemura, Ryota Ikeda



11 members

Wolve'Z Cansat



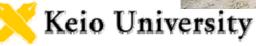


For ARLISS 2008

1st Flight was launched by Mr. Steve 2nd Flight was launched by Mr. Dave

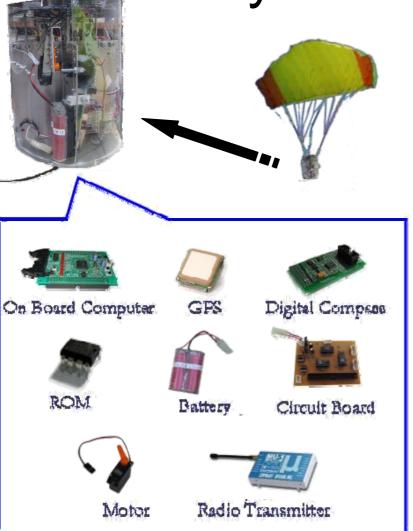


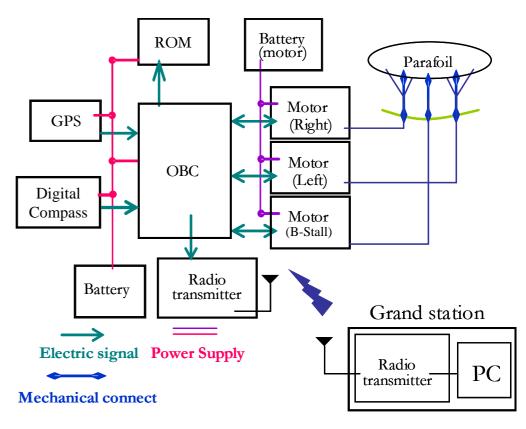




Flyback Architecture

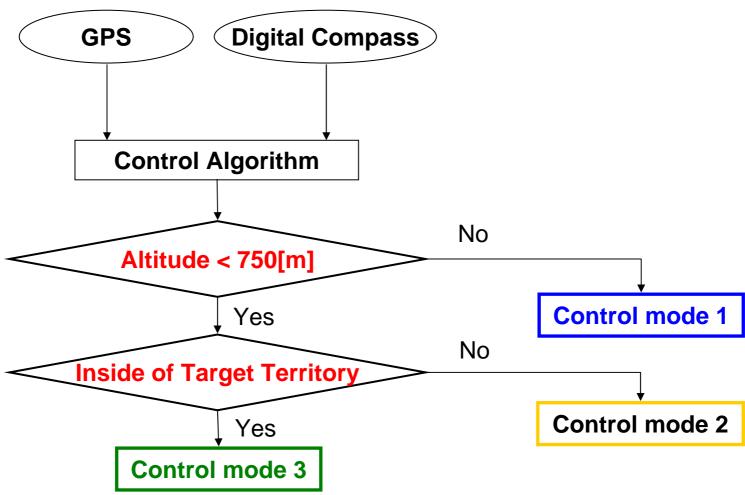


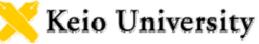




Control Algorithm







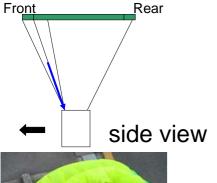
Control Algorithm



Control mode 1

B-Stall mode

in order to dive down rapidly



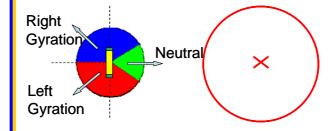


Control mode 2

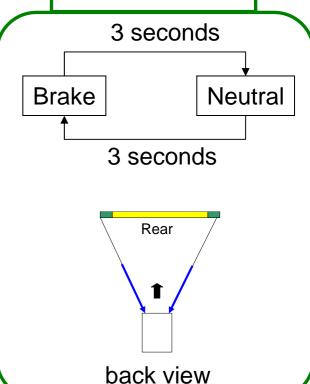
If Cansat go backward.

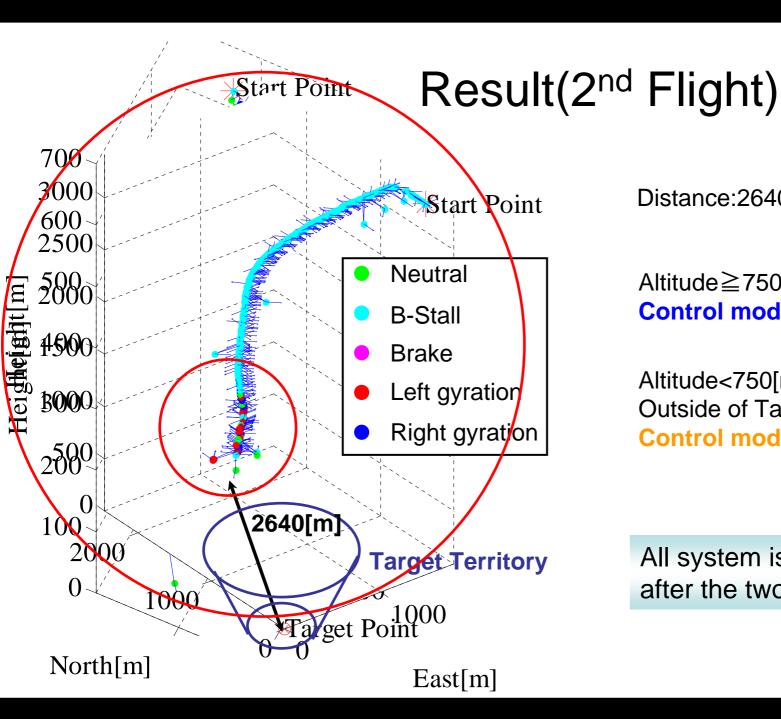
B-Stall mode

else



Control mode 3







Distance:2640[m]

Altitude ≥ 750 [m] Control mode1 was applied

Altitude<750[m] Outside of Target Territory Control mode2 was applied

All system is alive after the two flights.

Summary and Future plans

WOLVE'Z

- The result of this year's ARLISS flight
 - We launched parafoil style cansat twice in this year ARLISS event.
 First flight's record is 4450[m] and second is 2640[m].
 - We could get control record from on-board ROM and Radio Transmitter, so we could make sure that system could run certainly.

☐ Future plans

 We had a chance to test the new structure on Cansat in this year ARLISS event.(3rd Flight)

We could get a lot of knowledge and we will make improved one in the

next year's ARLISS.

3rd Flight was launched by Mr. Jeff

Proposal of new structure on Cansat

Special Thanks to ...









Mr. Steve and Mr. Dave and Mr. Jeff

