



ARLISS2006
Soka University
Rover Team
ROCKS

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Mission

The rober lands on ground with the help of parachute.

Then, the rober separates the parachute and apprach to the target with 10m.

Success Levels

- Advanced Success

”The Rover can reach the target within 10m.”

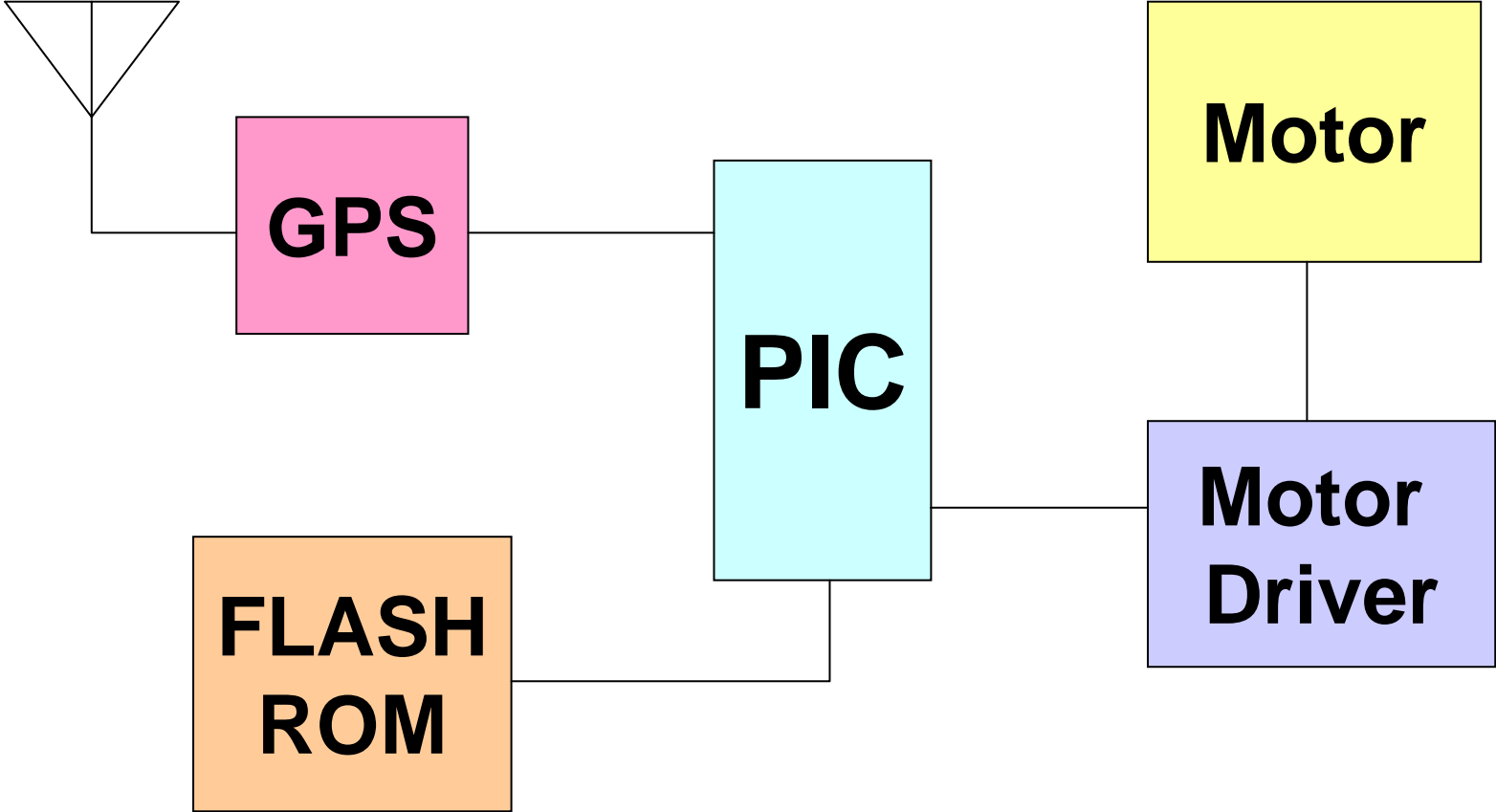
- Middle Success

”The Rover can autonomous travel.”

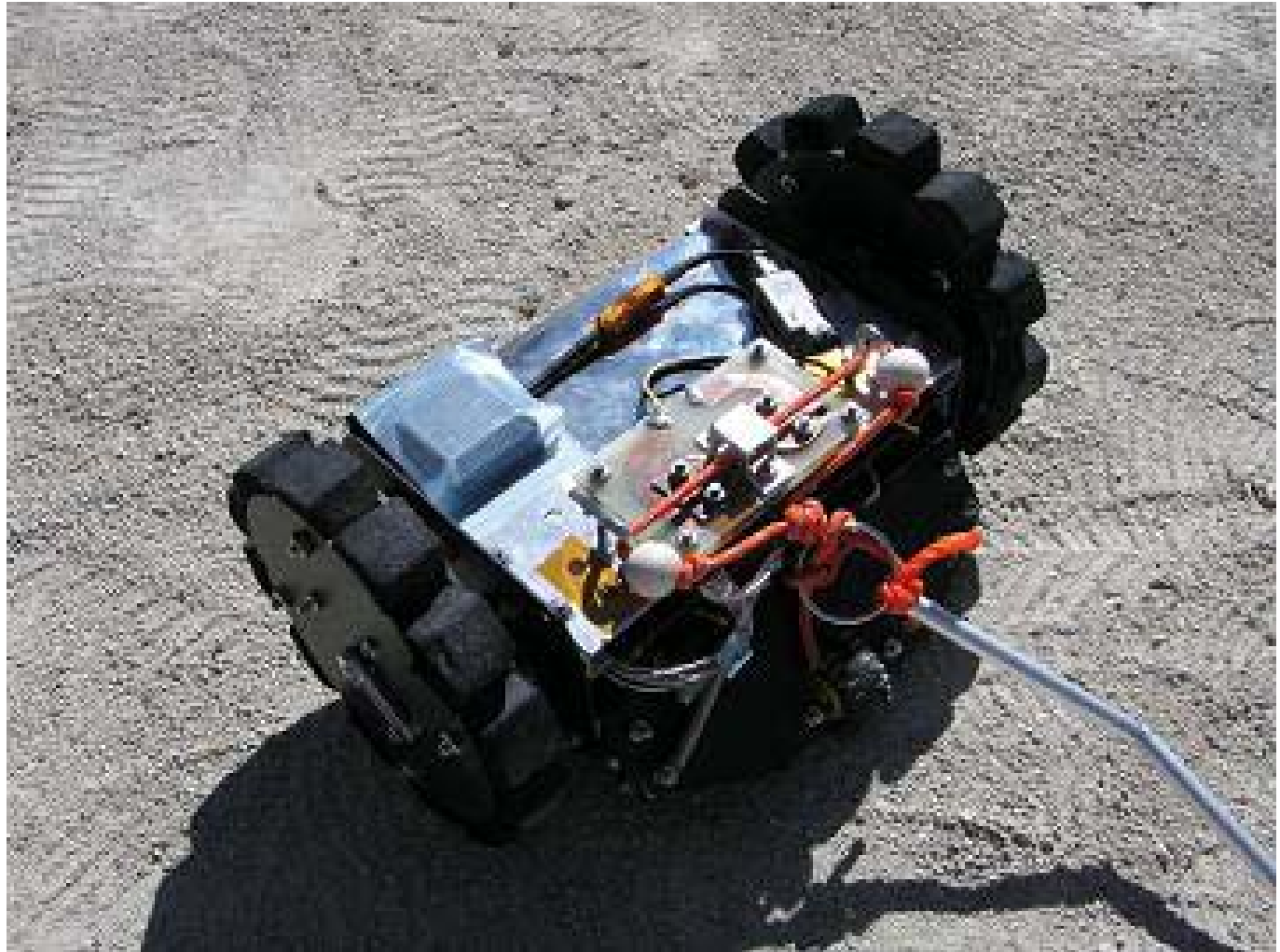
- Minimum Success

”The Rover can separate the parachute.”

System Diagram

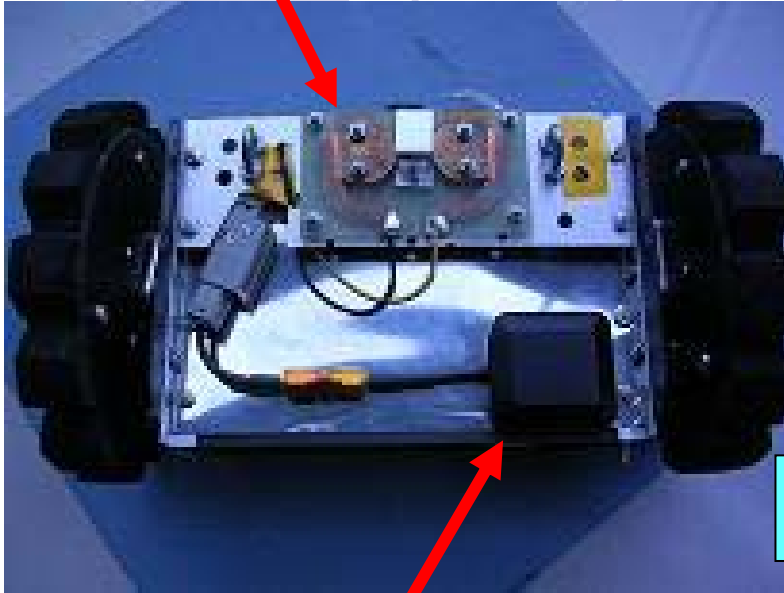


Structure

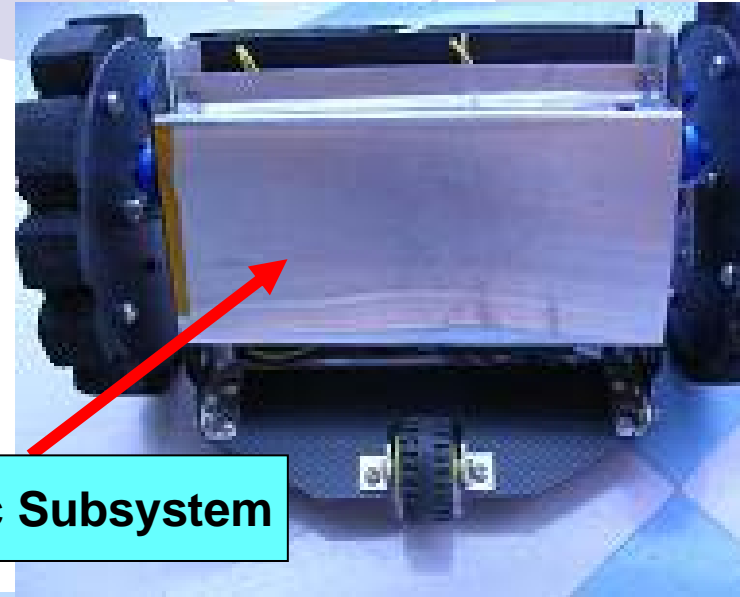


Structure

Parachute separation



Electronic Subsystem



Top view

Bottom view

GPS antenna

Top Layer: GPS

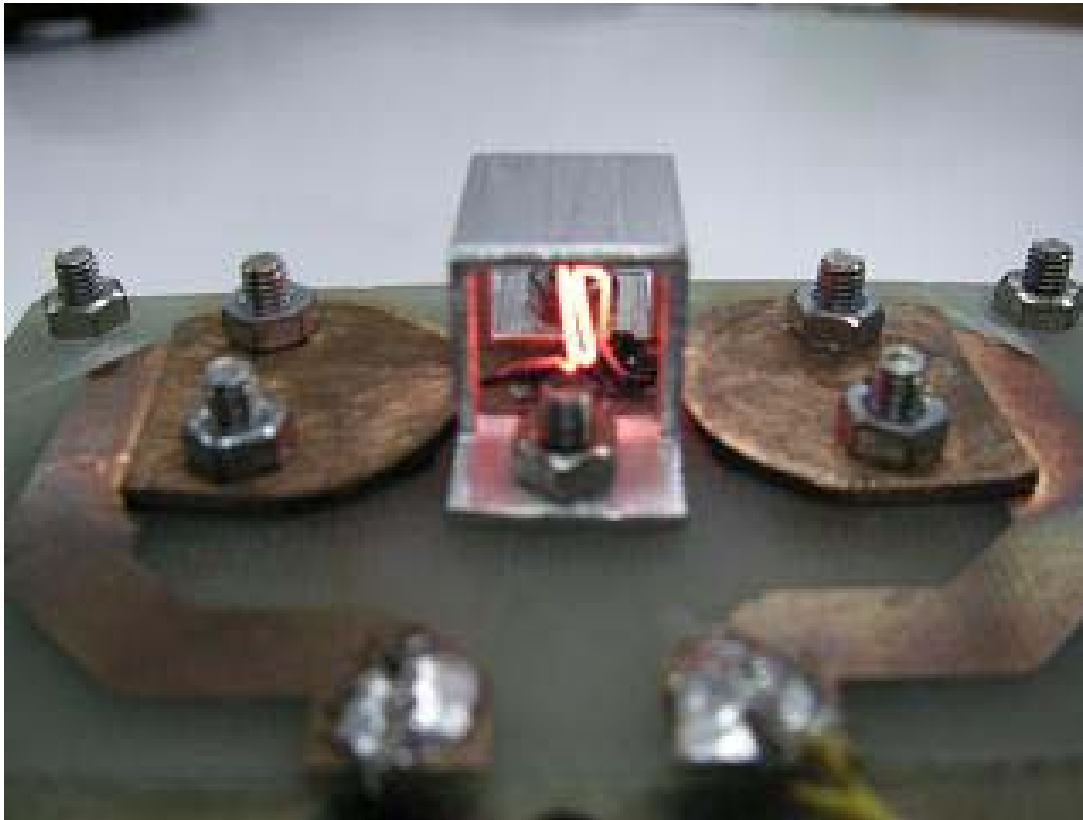
Middle Layer:
Motors & Batteries

Bottom Layer:
Electronic Subsystem



Front view

Structure: separation system



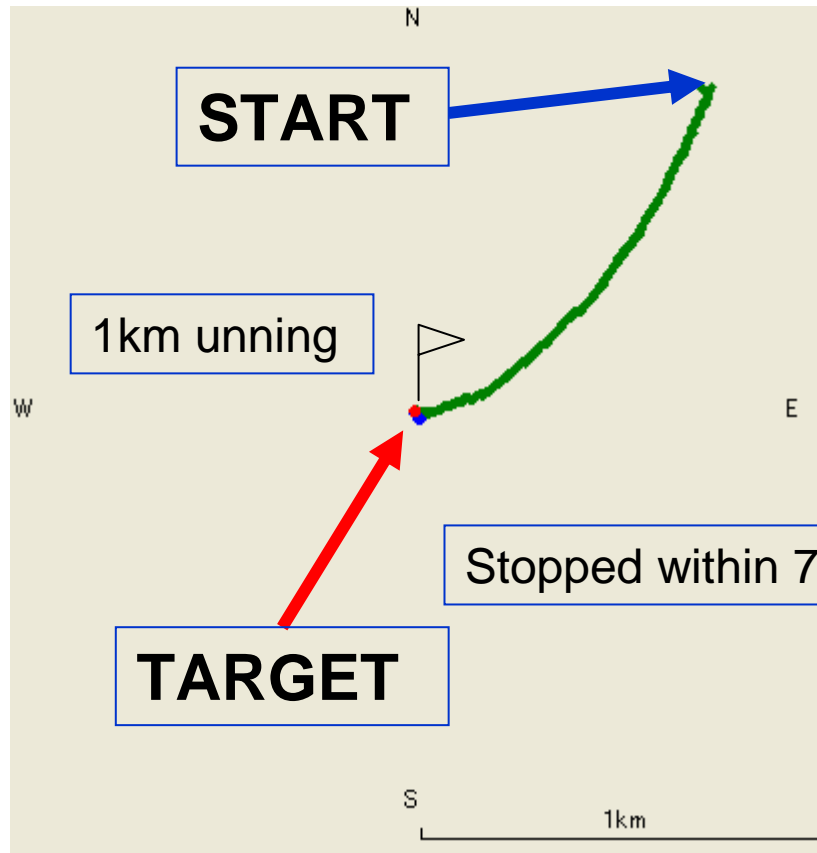
The rober
uses the heate
to separate
parachute.

Result in ARLISS



The heater burned out the string of the parachute during descending, then the rover had a free fall.

Pre-test:running test in Black Rock desert





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Thank you for your attention!!