

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."

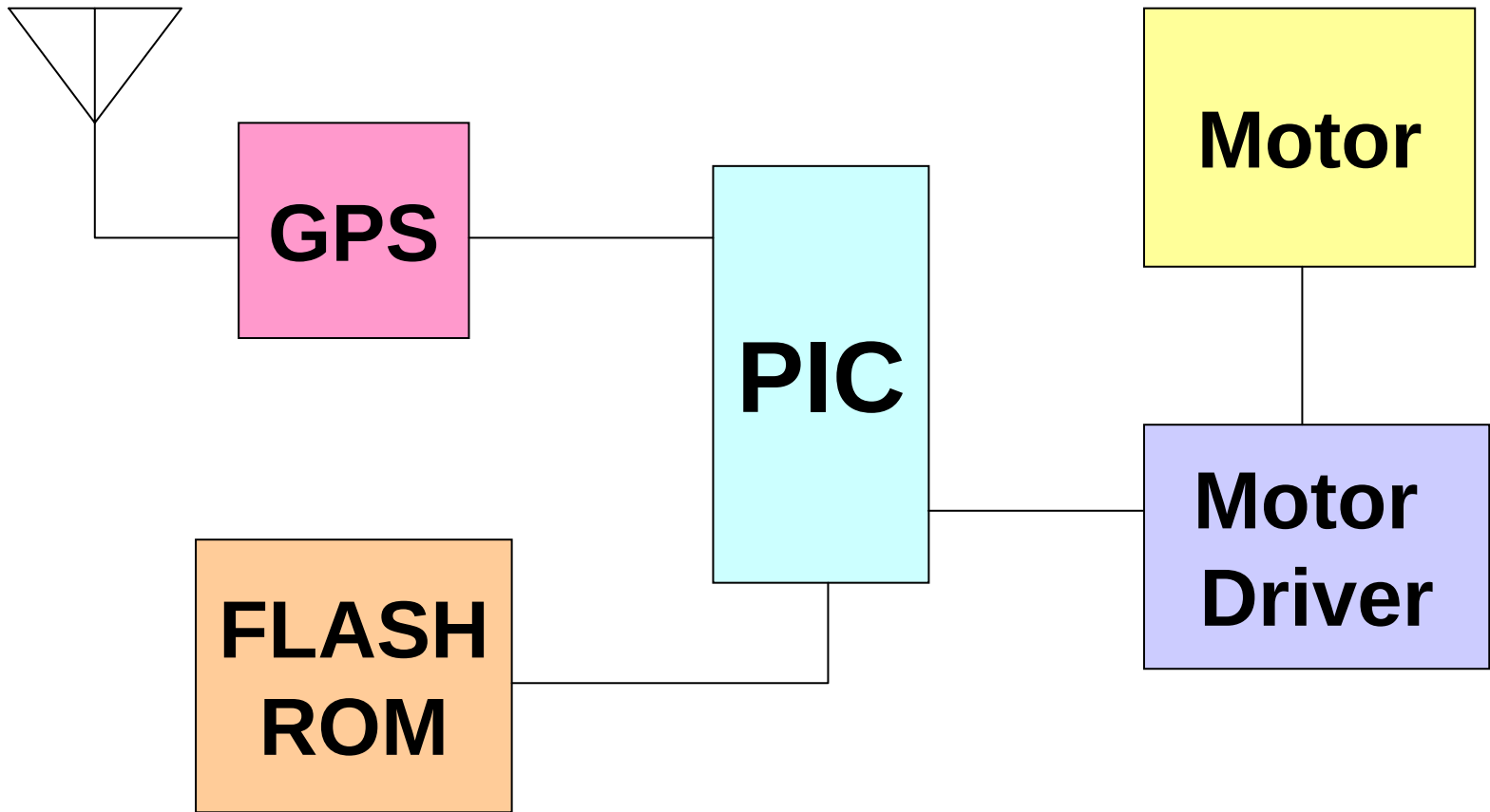
- Middle Success

→ "The Rover can autonomous travel."

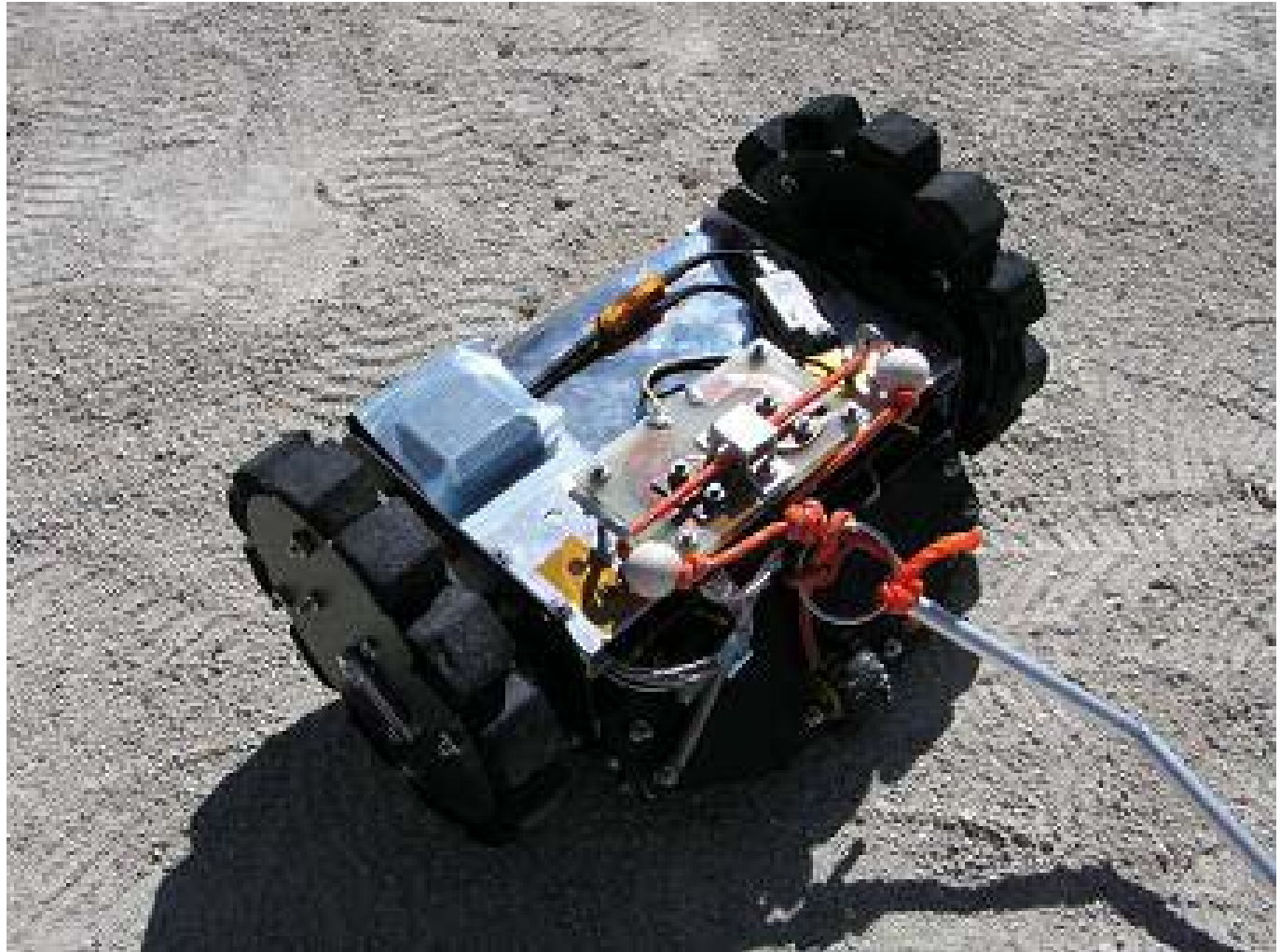
- Minimum Success

→ "The Rover can separate the parachute."

System Diagram

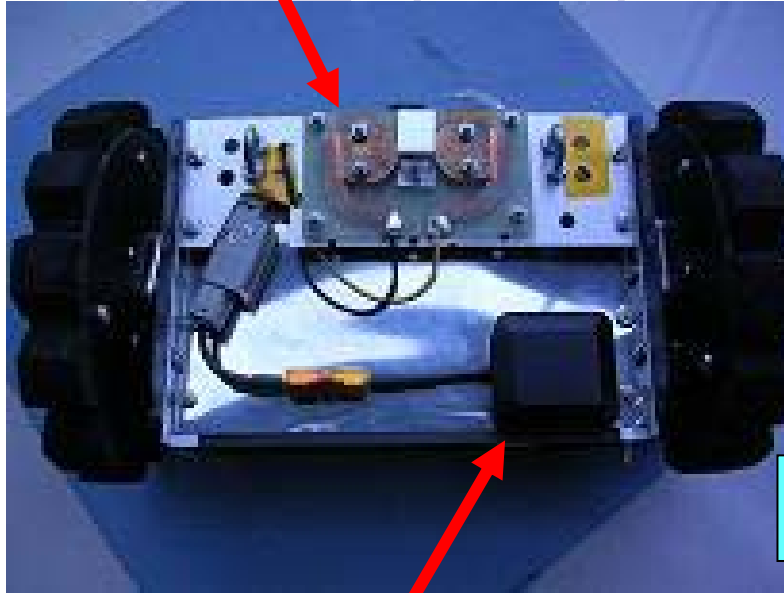


Structure

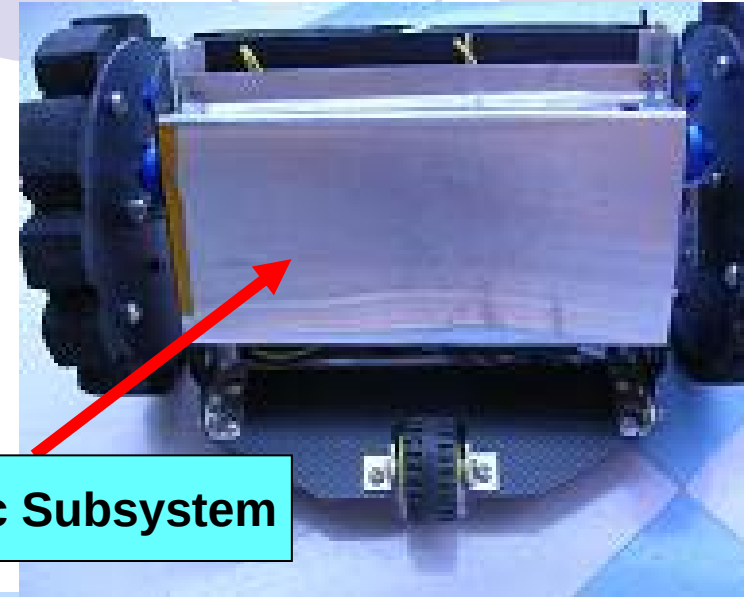


Structure

Parachute separation



Top view

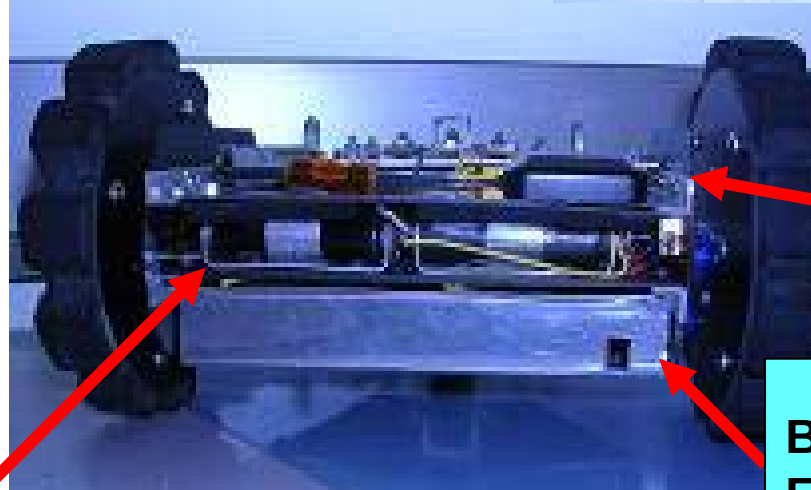


Electronic Subsystem

Bottom view

GPS antenna

Middle Layer:
Motors & Batteries

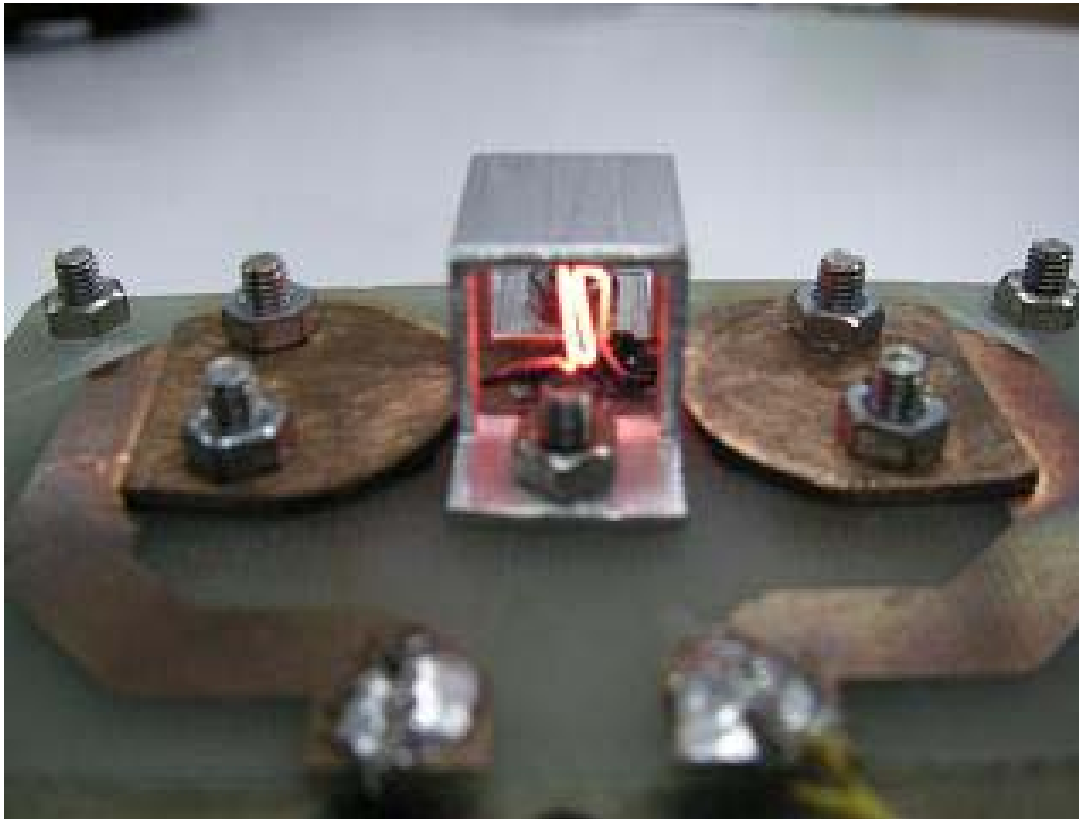


Front view

Top Layer: GPS

Bottom Layer:
Electronic Subsystem

Structure: separation system



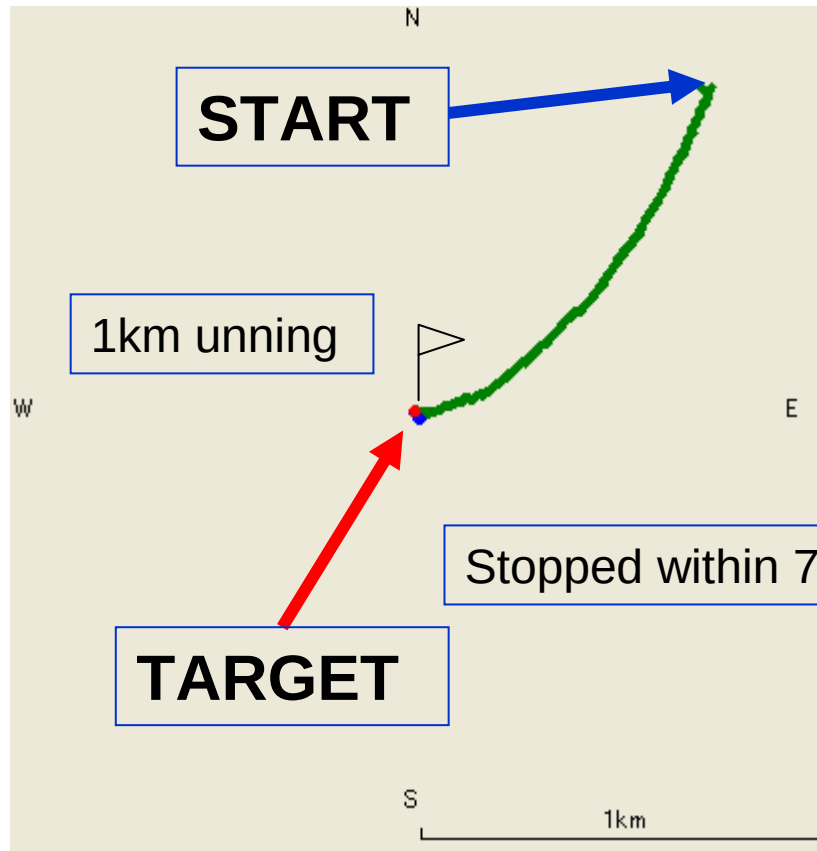
The rover
uses the heater
to separate
parachute.

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



A graphic featuring a blue neon-style border with rounded corners. Inside the border, the text "ARLISS", "2006", and "Rocks" is displayed in a glowing, cursive-style font. The text has a yellow-to-orange gradient with a soft glow effect.

ARLISS
2006
Rocks

Thank you for your attention!!