SPACE DYNAMICS LABORATORY

PAYLOAD
CHALLENGE

ESRA ID NUMBER

UNIVERSITY

PAYLOAD NAME

TEAM NAME

FACULTY ADVISOR EMAIL, PHONE #

Objective - Challenge teams to develop payloads that accomplish relevant function(s) while providing useful learning opportunities.

ENTRY FORM *(to be filled out by team; also fill out top portion of judging sheet)*

In order to enter the SDL payload challenge, this form must be submitted no later than two weeks prior to the start of the event.

Scientific or Technical Objective *(1200 characters max) and must fit within the window)*

Failure & Hazard Analysis Briefly describe possible failure modes and potential hazards. *(1200 characters max)*

Components & Materials Used List the components and materials used ("Component" refers to purchased items, "material" refers to everything else). *(1200 characters max)*

EMAIL FORM TO : PAYLOADCHALLENGE@SDL.USU.EDU

Space Dynamics™
LABORATORY
Utah State University

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JUDGING FORM

(team fill out top portion only)

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IREC payload compliance: *TO BE FILLED OUT BY JUDGES*	SCORE

1. Weigh (8.8 lbs or 4.0 kg minimum 5% scale accuracy allowance) ■ ·
2. Removable from the rocket ■ ·   NO   YES
3. Not affect the flight of the rocket if removed and replaced with ballast ■ · · · · · · · ·   NO   YES
4. Totally recoverable ■ ·   NO   YES
5. Not contain any live, vertebrate animals ■ ·   NO   YES
6. Not contain significant quantities of lead or other hazardous materials ■ · · · · · · · ·   NO   YES
7. SDL Technology Relevance Award: Robotics, Artificial Intelligence, or Infrared ■ · · · ·   NO   YES

Total IREC deduction or bonuses

Payload Challenge Judging Criteria

Scientific or Technical Objective(s) › *Scientific or technical relevance, experimental approach, etc.* — *(400 points)*

Payload Construction and Overall Professionalism › *Includes make/buy decisions, craftsmanship, material usage, poster, handouts, reports, etc.* — *(250 points)*

Readiness / Turnkey Operation › *Will the payload interfere with launch operations? Will the payload operate after hours of launch preparation, rail time, heat, waiting for other launches, etc?* — *(50 points)*

Execution of Objective(s) › *How well did it accomplish the objective(s)?* — *(300 points)*

Note that no report equals zero points and rocket failure results in 150 points (half credit — not known if payload would have worked or not)

TOTAL PAYLOAD CHALLENGE SCORE ■

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