
MR
Cornell Mars Rover
Greetings
Earthlings!
Recruitment 2015-2016

DESIGN, **BUILD**, AND **OPERATE**

a mock rover that can perform

a variety of ***field tasks*** to assist in

A FUTURE MISSION TO

MARS

We're Young & Hip

5 Years
as an established team

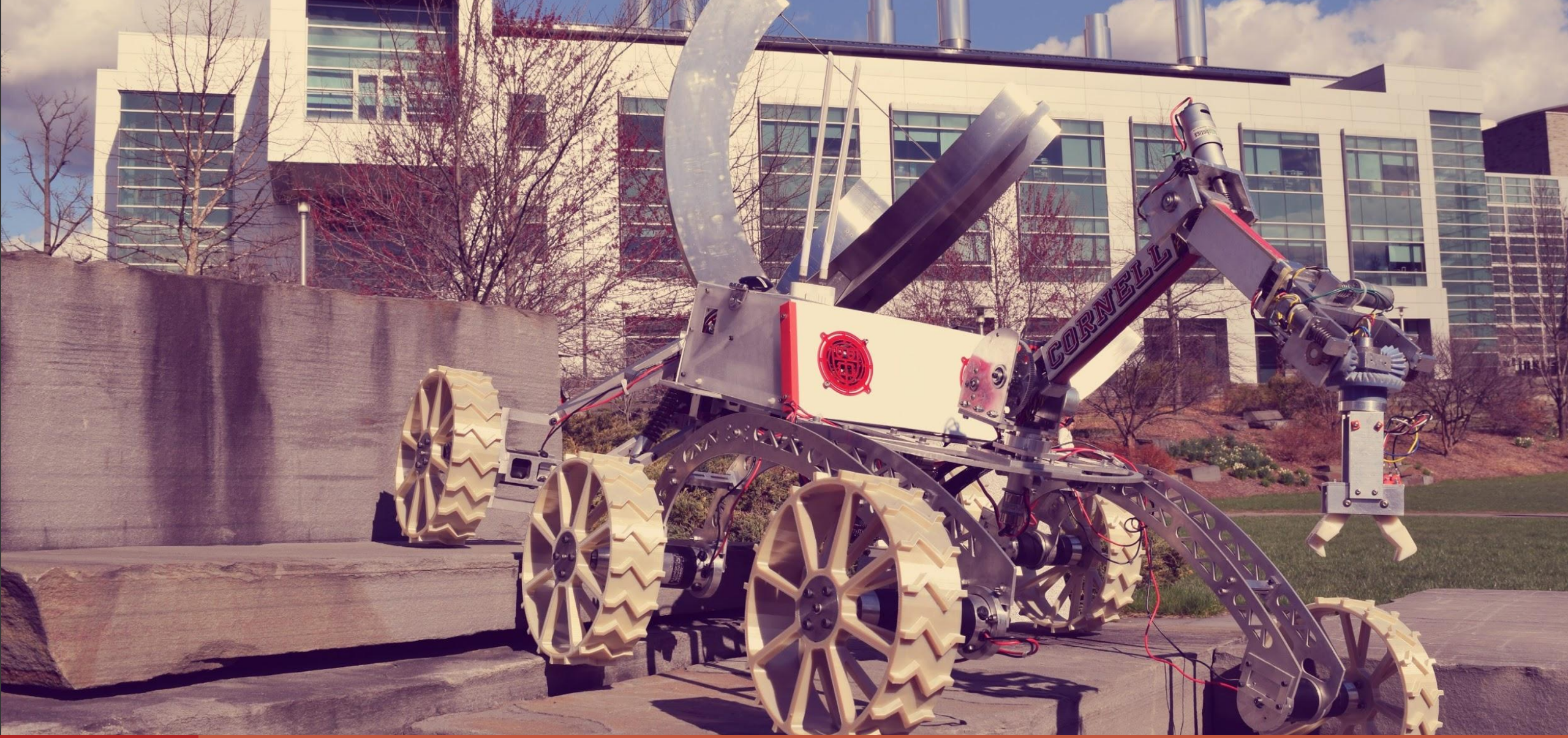
40 Members
with diverse backgrounds

4 Rovers
built with love and care

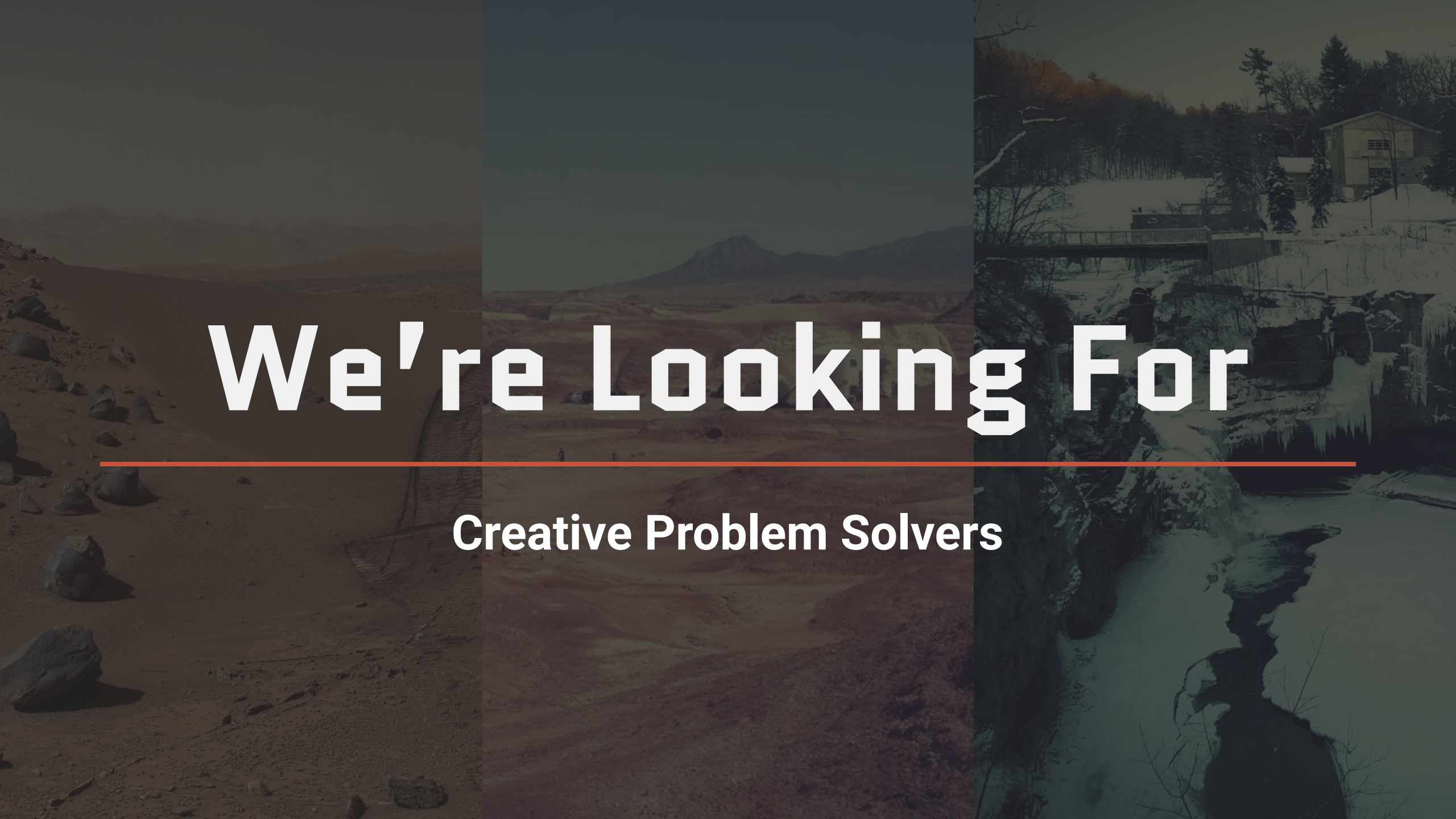
Eos (2012)

Helios *(2013)*

Ares (2014)



Garcia *(2015)*



We're Looking For

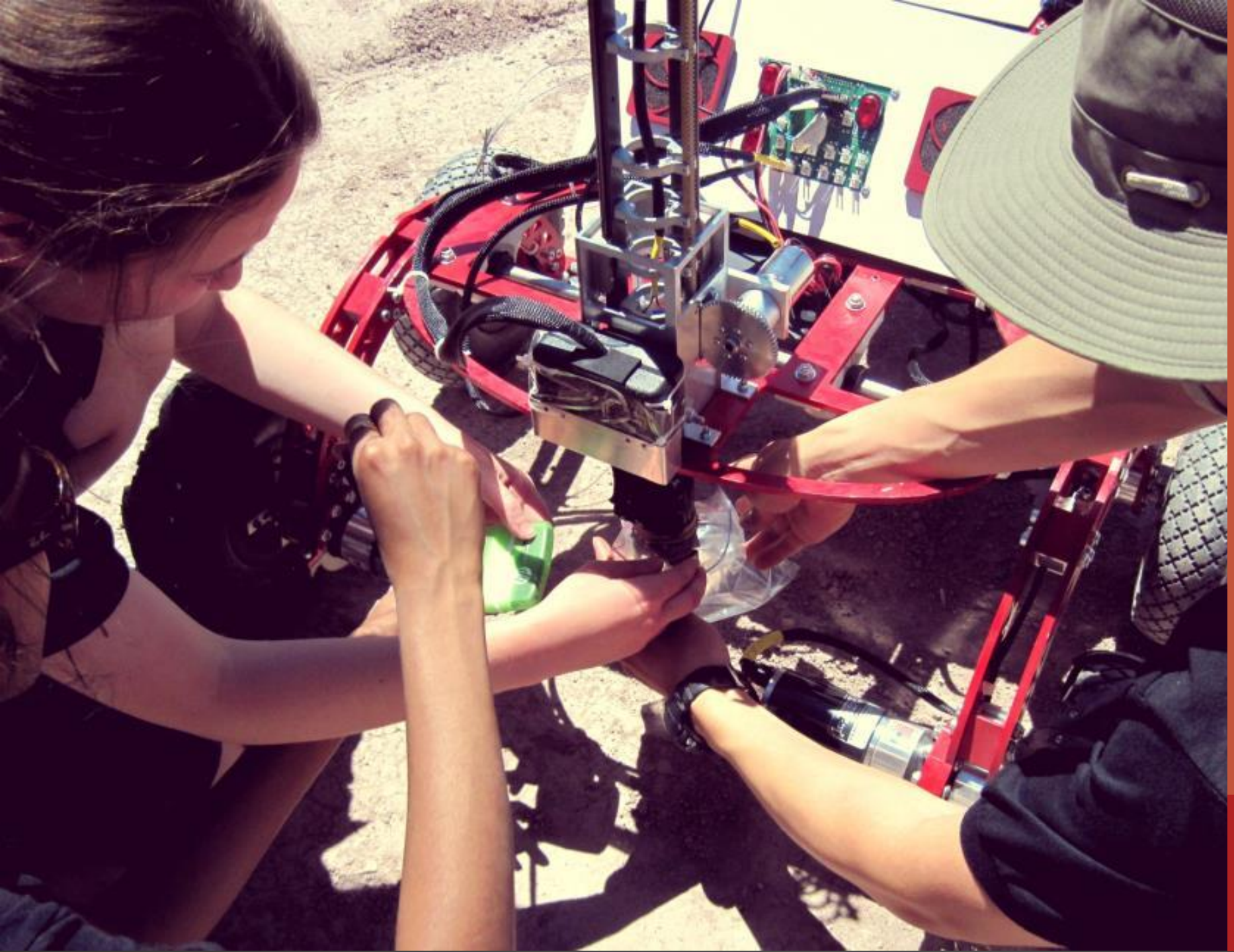
Creative Problem Solvers

University Rover Challenge

Occurs each year at the end of **May**

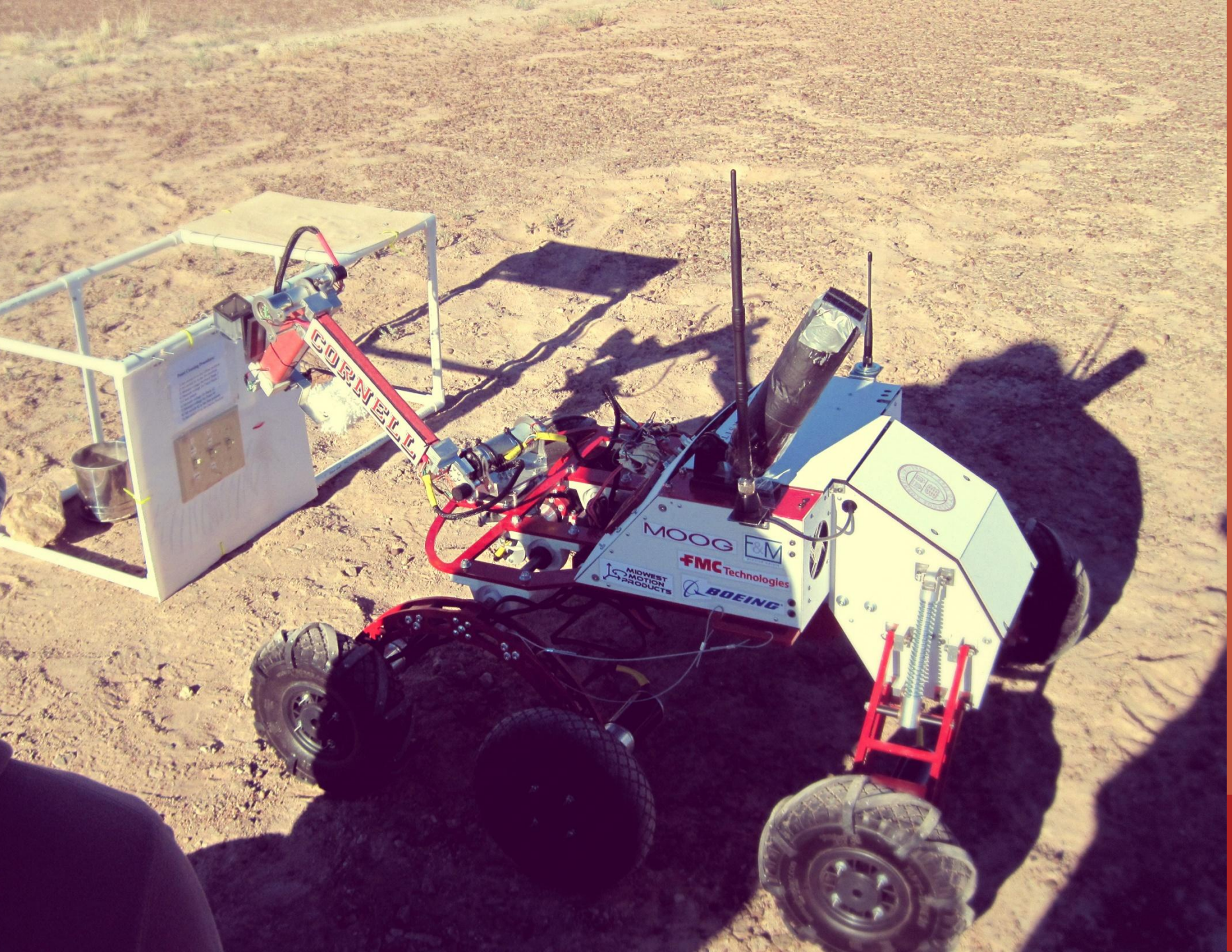
Compete against over **40 International Teams**

Winners: Opportunity to present at International Mars Society Convention



1
URC Task

Soil Sample Analysis



2
URC Task

Equipment Servicing

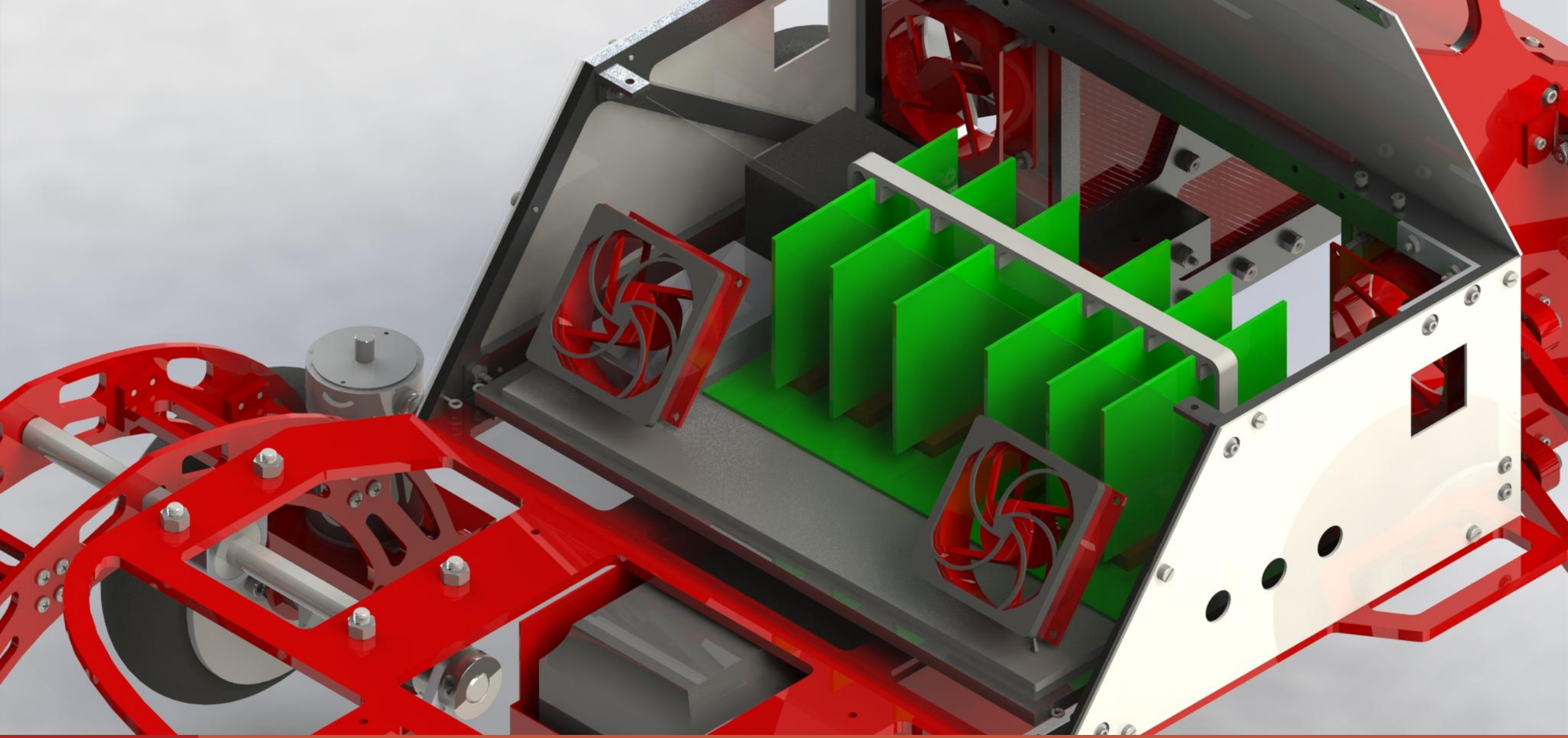
3
URC Task

Astronaut Assistance

4
URC Task

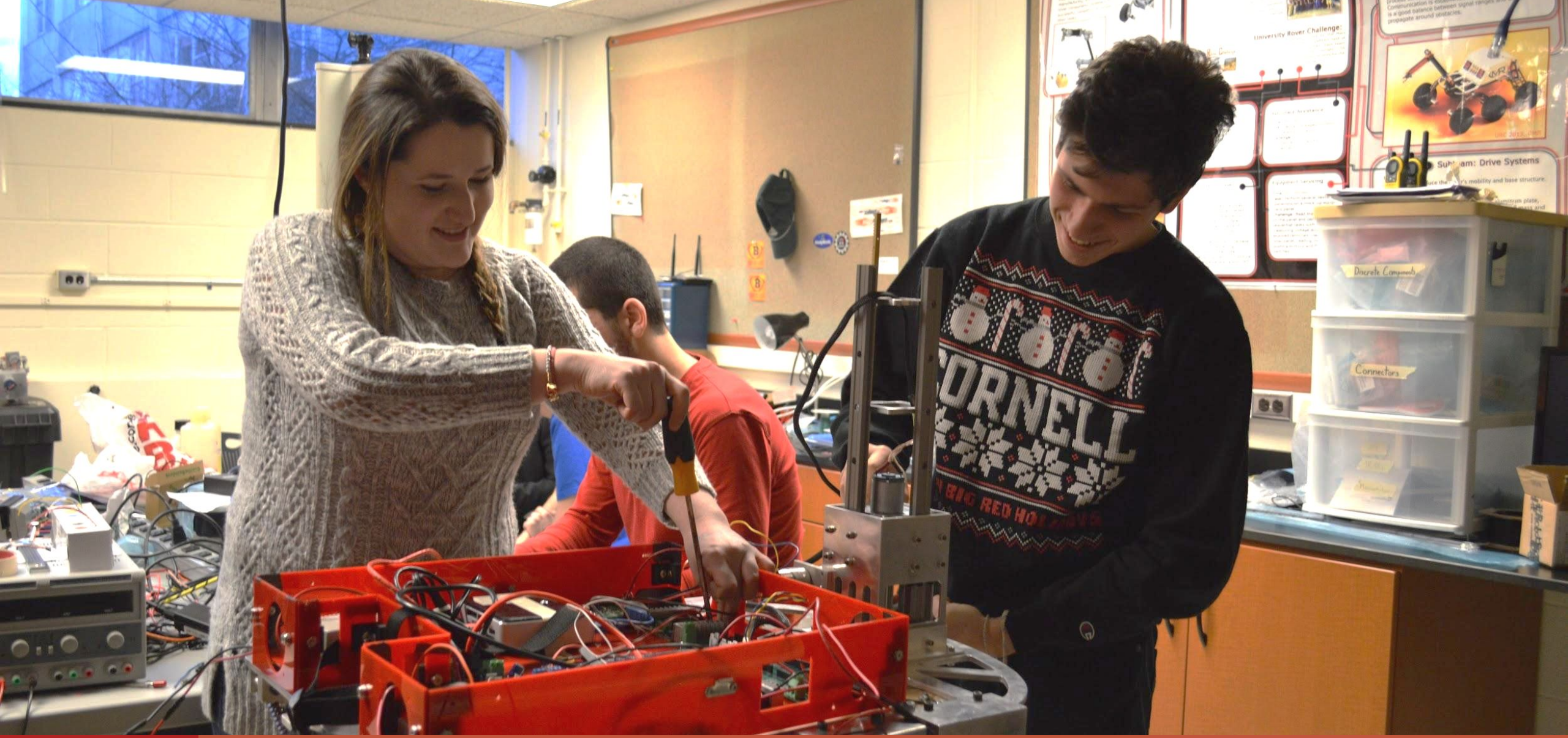
Terrain Traversal

August – November



Computer Aided Design & Analysis

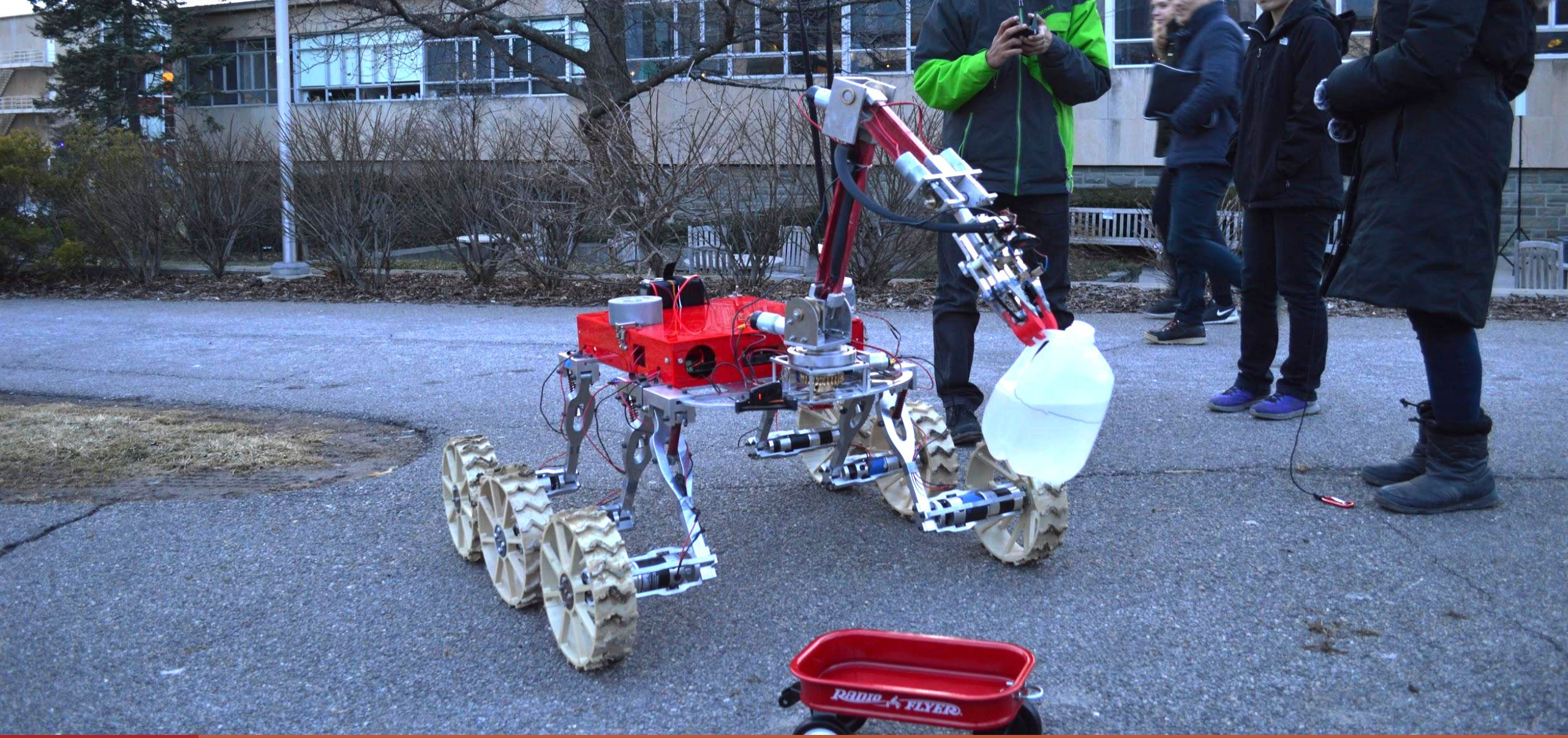
November – January



Hands-on Lab Work

Research Build Test

January – May



Testing for Competition

Opportunities

for Diverse Interests

MechE	ECE	CS	MORE +
Physics	Sensors	Data-Driven	Marketing
Computer Aided Design & Analysis	Wireless Communication	Web & Software Development	Chem, Bio, and Environmental
3D Printing	Power Systems	Open Source	Entrepreneurship
Product Design	Circuit Design	OS Design	Graphic Design

Drive Systems

Design chassis, electronics housing, suspension, and locomotion of the rover.

Mechanical Engineering

- Physics
- Robotics
- Machining
- Computer Aided Design & Analysis
- Product Design

Task Systems

Develop specialized rover components for competition field tasks.

Mechanical Engineering

- Prototyping
- 3D Printing
- Product Design
- Robotics
- Computer Aided Design & Analysis

Controls Electrical

Build the Electronics Core and manage wireless communication.

Computer & Electrical Engineering

- Sensors
- Robotics
- Power Systems
- Wireless Communications
- Circuit Design

Controls Software

Develop C++ software for the rover's operating system.

Computer Science

- Linux
- Robotics
- OS Design
- Hardware Abstraction Layer
- Open Source

Science

Research and analyze soil samples for signs of life.

Chemistry, Biology, and Environmental Engineering

- Sensors
- Robotics
- Geology
- Cyanobacteria Research
- Spectroscopy

Business

Administer team finances, sponsorships, marketing, and technology

Computer & Information Science

Art, Architecture, & Planning

More +

Accounting

Marketing

Data-Driven

Web Design & App Development

Graphic Design

Our Track Record

3rd	2nd	4th
Overall	Terrain Traversal	Equipment Servicing
2012	2014	2015


GAIN hands-on experience.
LEARN from peer mentors.
GROW as a leader.
JOIN a passionate community!


Thank You!
Apply Online!
Deadline:
Monday, Sept 7
at 11:59pm
Learn More
marsrover.engineering.cornell.edu