

OBJECTIVE:

Build the vehicle of the future!

RULES:

- Each team shall consist of 2-6 students.
- Participants may use the ASE virtual desktop to access CAD software or use local CAD software on their computer (any form of CAD software is allowed)
- No outside CAD files or outside help

WRITE-UP:

The project will finalize with a brief write-up on the vehicle. Take this time to fully explain the reasoning behind your team's design and CADathon experience. There is no minimum or maximum length for the write-up.

Also, teams may choose to run analyses on their CAD model to further explain its effectiveness, but this step is not required and will not greatly impact the judges' final decision.

Vehicle implementation:

- Why did your team choose this vehicle?
- How will the vehicle benefit current society?
- What audience is the vehicle garnered towards?
- What makes the vehicle convenient?
- What powers the vehicle?
- What makes the vehicle feasible for future generations? (i.e., structural integrity, power, cost estimate, etc.)
- What makes the vehicle exciting or unique?

Engineering Process:

- Design methodology (including a breakdown of subsystems and materials used)
- Team members and their responsibilities
- CAD analyses (optional, but not required)

SUBMISSION:

- Send the fully-assembled vehicle model CAD and the write-up to utlunarcouncil@gmail.com. The CAD will be submitted in these formats: .STEP and PDF, and the write-up will be submitted as a PDF.

JUDGING CRITERIA:

The judges panel will be composed of professors and LUNAR Council members. They will be considering the following criteria:

CAD:

- CAD design (taking into account its completion and errors)
- CAD aesthetics
- Animation (optional)

Write-Up:

- Vehicle implementation questions (#1-7)
- Design methodology
- Evident team member collaboration

PRIZES:

- ASE/COE LUNAR Council's CAD Engineering Excellence Award
- Materials for miniature 3D-printed replica
- ASE/COE Department merch
- Recognition and all ASE/COE Department media outlets and notification of award to all professors for further recognition



GOOD LUCK!