

Date: Wed, Jan 8, 2020 at 10:59 PM  
Subject: HEF GRANT APPLICATION Form Submission  
To: <[team@communicationsteam.com](mailto:team@communicationsteam.com)>, <[herculeseducation@gmail.com](mailto:herculeseducation@gmail.com)>

From: **Dylan Tuazon / Club President for Hercules High School UAVs (Unmanned Aerial Vehicles)** <[dyltuazon@gmail.com](mailto:dyltuazon@gmail.com)>

Contact Person (if different from applicant):

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School Name: Hercules High School

Title of Project: S.T.E.M. Community Outreach Project and ROADS (Rover Observation and Drone Survey) to Mars Student Challenge

DonorsChoose Project ID number:

Project Duration or Start/End Dates: February 2020 to June 2020

Project Description: 1. "STEM Flight: Try & Fly" is a community outreach program that is organized by Hercules High School UAV (Unmanned Aerial Vehicle) Club. The goal of this program is to increase pathways for students towards careers in Science, Technology, Engineering and Math (STEM), particularly in drone flight technology. Most importantly, this program aims to serve elementary and/or middle-school students in WCCUSD, who are predominantly under-represented minority students from families with low socio-economic status.

2. The ROADS on Mars challenge aims to provide hands-on experiences for students following in the steps of NASA's Mars 2020 rover. Student teams will pilot a drone to land on the surface — in the Jezero crater on Mars, just as the rover will — and will then use a LEGO Mindstorms robot to navigate the surface and complete science objectives. ROADS stands for "rover observation and drone survey," which are key components of the Mars challenge.

Budget Description: Materials:

#### I. STEM Flight

1. Drone Netting = \$75.00
2. Safety Goggles Set = \$15.00
3. PVC Pipes Set = \$50.00
4. Foam Puzzle Floor = \$15.00
5. Holla Hoops Set = \$10.00
6. Foam Padding Noodles Set = \$25.00
7. Duct Tape Set = \$15.00

#### II. ROADS to Mars

1. Club Shirts = \$25.00
2. Shirt Printing = \$130.00
3. Kraft Paper Roll = \$20.00
4. Tempera Paint Set = \$20.00

Amount requested: \$400

Amount requested (other amount): \$400

DonorsChoose remaining balance at the time of completing this form:

Project Approved by the School Principal: yes

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