



THE SDSU ROCKET PROJECT

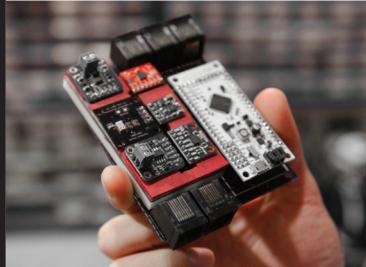
WHO WE ARE

The SDSU Rocket Project is a non-profit organization that is a part of the College of Engineering at San Diego State University. Our organization expands our members' knowledge of the Aerospace industry, introduces us to the latest techniques in the design and fabrication of rockets, and provides us with hands on experience in Aerospace projects. During the course of our projects, we have become one of the few college rocketry groups to take on the challenges of developing liquid-fueled rockets.

CURRENT ROCKET

PROJECT ENDER

- We are entering design stages for our next rocket, Ender
- Creating a more light weight, fuel efficient rocket by primarily constructing airframe of filament wound carbon fiber
- Designing and 3D printing a regeneratively cooled motor
- Developing a rocket control system powered by Android to record flight data and perform real-time flight analysis



PAST ROCKETS

For the first time in October of 2012 we successfully launched and recovered our rocket, the Swiss Miss. August 2013 marked the second successful launch and recovery of the Swiss Miss.

THE SWISS MISS 1

- Swiss Miss is an 18 foot tall, single stage, liquid fueled rocket
- Reached peak altitude of 10,100 feet and a peak velocity of Mach .8 with a burn time of 11 seconds

THE SWISS MISS 2

- Android mobile phone application controlled all electronic aspects of rocket
- Designed new supersonic fins using aerospace grade foam and carbon fiber
- Took processes that did not work well at the first launch and improved them for the second launch

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WHY HELP

We aspire to bring innovation to all of our designs and with your support we can complete our goals.

- Rocket Project is our best learning tool to supplement our classes.
- We are inspired to work hard so we can to prepare for our future careers.
- We are determined to bring innovation to our designs.
- When we set goals for ourselves, we strive to meet or exceed them.
- All of our support comes from our sponsors.

WHAT YOU GAIN

- We will give you the option of including a payload in the rocket.
- We will put your company logo on our website to recognize your contribution.
- We will dedicate space on the rocket to your company logo.
- Tax write-off for all donated material and sponsorship.
- You will be invited to all of our events and meetings.
- Your support will give us access to the resources and knowledge we need to meet our goals, including testing a 3D printed rocket motor.

HOW YOU CAN HELP

- We always need more tools, materials, and supplies (carbon fiber, fiber glass, resin, hardener, aluminum, fasteners, etc).
- We do not receive financial support from the university and are always accepting donations.
- We have limited access to machine shops. Not only do we need parts machined, but we also would like our members to learn how to operate machinery to enhance their design capabilities.
- We are always looking for guest speakers, tours of companies, and industry advice.

ESTIMATED BUDGET

Electronics	\$3,000
3D Printed Motor	\$16,150
Materials	\$1,900
Fasteners and Fittings	\$1,540
Valves and Actuators	\$1,440
Miscellaneous	\$1,200
Total	\$25,230

