

PRESENTATION BROCHURE

# RORO TEAM



On 20th to 24th June 2017 the Experimental Sounding Rocket Association (ESRA) hosts its annual, **prestigious Intercollegiate Rocket Engineering Competition** (IREC). 2017 is the debut of the IREC in the heart of the world's first-ever built commercial spaceport in New Mexico, USA!

As the **first Swiss Student Team** we build a sounding rocket competing against teams from across the world. The rocket flight, the innovation of our payload and the technical presentation session will be evaluated.

We are the pioneers for a regular Swiss student team participation at this prestigious annual competition. Supervised by the EPFL Space Engineering Center we combine education, hands-on project experience and passion for **Swiss engineering excellency!**

# OUR ROCKET

Our rocket will deliver a 4kg payload to 3km above ground. At its apogee, the rocket will separate and deploy **a set of gliders flying down in formation.** Also, we measure as much data during the flight of RORO as possible.

The experience gathered with our rocket RORO is directly transferred the next team which will compete in 2018. As a **National Student Team** we want the RORO Rocket to be founded on the expertise and technology available in Switzerland!

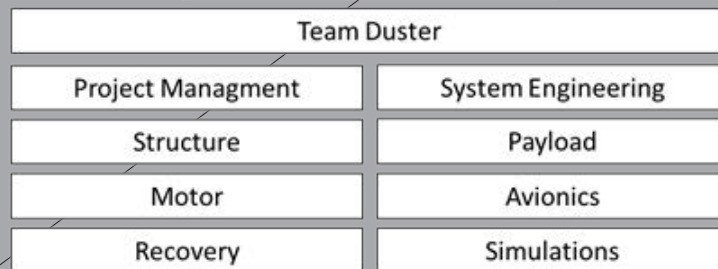
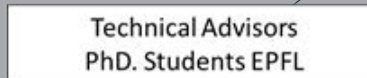


# PROJECT FRAME

EPFL

HEIG-VD

ETH



## SUPERVISION AND TASKS

Building the sounding rocket for this competition allows students to learn, apply and practically experience rocket technology as well as industrial project processes. Our interdisciplinary team is closely supervised by the Space Engineering Center EPFL, eSpace.

## MILESTONES

We are currently developing our concept and preparing the required certifications to test our system in Switzerland. Reviews with eSpace and our partners ensure the consistency and progress.



# WHO WE ARE

## TEAM DUSTER

We are 15 passionate engineering students from ETH Zürich, EPFL and HEIG-VD. As the pioneer Swiss team we want to lay the foundation for the teams to follow.

Our aim: to prove the professionalism, innovation and competency of Swiss rocket and payload engineering – founded on the expertise and technology available in Switzerland.



## PEOPLE WORKING ON THE ROCKET

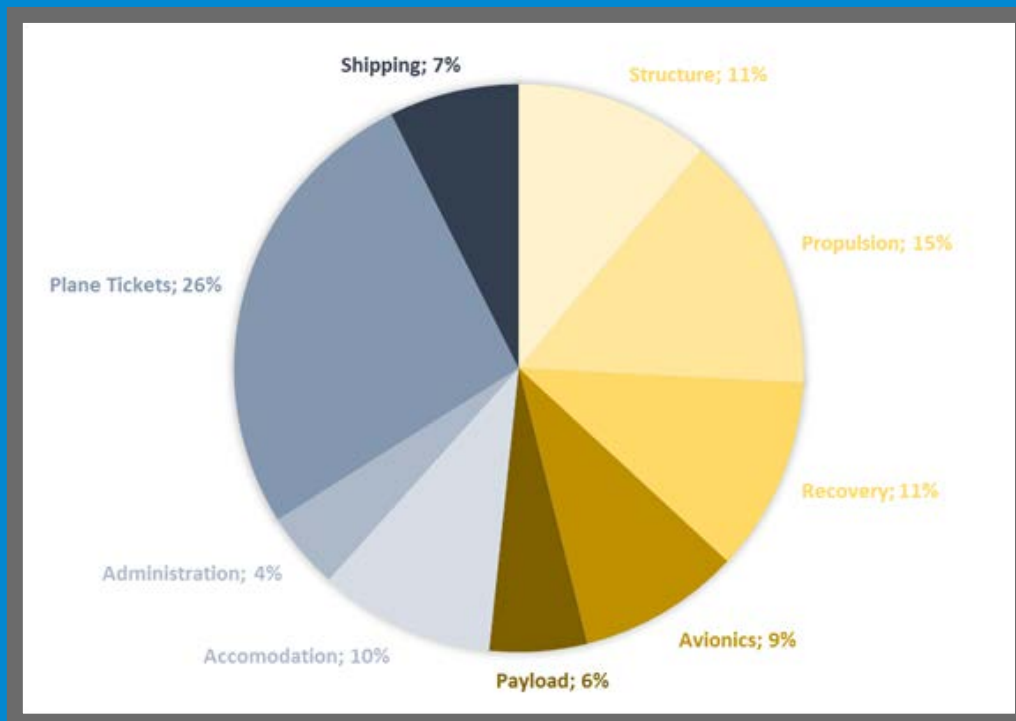
Stephane Teste	Physics	Quentin Talon	Physics
Sorina Lupu	Microengineering	Hassan Arif	Mechanical Engineering
Dalmir Hasic	Computer Science	Sanket Diwale	Electrical Engineering
Oliver Kirchhoff	Mechanical Engineering	Emilio Lozano	Mechanical Engineering
Michael Pellet	Microengineering	Loris Commissione	Mechanical Engineering
Michael Spieler	Microengineering	Rogério Arvela	Thermal Engineering
Patrick Spieler	Microengineering	Aloïs Laub	Electrical Engineering
Christian Cardinaux	Mechanical Engineering		

# SPONSORING PACKAGES

Only through your support the realisation of our vision becomes possible. Support us financially, with material and logistics. All sponsors are kindly invited to our project reviews with specialists from the Space Engineering Center EPFL and RUAG Space.

**Team Duster 2017 invites you to participate in the pioneering mission to lay the foundation for further Swiss engineering excellency.**

Get in direct contact with future engineers from our top Swiss universities and benefit from the prestigious platform at the international intercollegiate sounding rocket competition!



Interested to support our student initiative?  
**We invite you to share the passion for Swiss engineering excellency!**

## **GOLD**

FROM 5000 CHF

- Large company logo on the rocket
- Mention on all research papers submitted for publication in -journals and conferences
- Mention and logo in all presentations
- Presentation of the results at the sponsor's location

## **SILVER**

FROM 2500 CHF

- Mid-sized company logo on the rocket
- Mention and mid-sized logo in all presentations

## **BRONZE**

FROM 1000 CHF

- Small company logo on the rocket
- Mention and small logo in all presentations

## **PATRON**

- Mention and small logo in all presentations

Team Duster – Rocket RORO  
Space Engineering Center EPFL  
Station 13  
CH- 1015 Lausanne  
+41 (0) 21 693 6978

Oliver Kirchhoff  
kioliver@student.ethz.ch

Dalmir Hasic  
dalmir.hasic@epfl.ch