



WARR

Scientific Workgroup for
Rocketry and Space Flight

WARR e.V.

c/o Institute of Astronautics
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Press release

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Students from Munich in the final round of SpaceX Hyperloop Competition

The student team from Munich representing the *Scientific Workgroup for Rocketry and Space Flight* (WARR, in the original German) of the *Technical University of Munich* (TUM) has, this past weekend, made it into the final round of the *SpaceX Hyperloop Pod Competition*.

From the design to construction

As part of the Design Weekend organised by SpaceX on the 29th and 30th of January, more than 120 teams from around the world introduced their draft designs for the new mobility concept Hyperloop at Texas A&M University. A jury at the competition selected 22 groups who are now allowed to proceed to test their prototype on a specially developed test track in Los Angeles in Summer 2016.

Trend setting design of the Munich students

Among the finalists are the students from the WARR group at TUM who impressed the judges with their focus on security and scalability. Above all, the team focused on an innovative design, not only meeting the requirements of the competition, but also looking forward to a real implementation of the concept. Teams from renowned universities such as Massachusetts Institute of Technology (MIT) and the University of California Irvine will compete against the German team for the last round. The only other European team which qualified for the final round was Delft University of Technology from the Netherlands.

International attention

The emotional climax of the event was the unannounced appearance of the visionary Elon Musk. The usually reclusive founder of SpaceX and Tesla took a lot of time to motivate the students and answer numerous questions. American politicians also showed great interest in the event. The US Secretary of Transportation Anthony Foxx visited the event and was fascinated to listen to the German team's explanations about their design.

Mature prototype in only half a year

The hard work of the students is just beginning. Up to the test ride next summer, the calculations must be substantiated and within half a year a roadworthy prototype must be built. An ambitious task! According to current calculations, the vehicle is expected to be at least 4 metres long with a total weight of 880 kilograms. Apart from support already granted by important partners such as



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the MakerSpace, UnternehmerTUM and TNG Technology Consulting GmbH, the team is still in search of other sponsors.

The Hyperloop Alpha Study by Elon Musk

The Hyperloop mobility concept was introduced in 2013 by Elon Musk in the Alpha Study, according to which high-speed trains with roughly the speed of sound (around 1100 km/h) should float in a vacuum tube. These tubes should connect distances between large metropolis regions and allow faster and more efficient travelling in comparison to today's means of transportation.

Background: the successful history of WARR

Approximately 200 students at the Scientific Workgroup for Rocketry and Space Flight (WARR), a student organisation at the Technical University of Munich (TUM), are active in all fields of astronautics and are internationally successful with their projects. Besides the latest Hyperloop project, the motivated members have over 50 years experience developing rockets, building satellites and carrying out research into the Space Elevator concept. WARR wrote history in 1974 with the flight of the first German hybrid rocket, and in 2015 with the first hybrid rocket launched in Brazil.

Contact and information

For further comments or inquiries feel free to contact us: pr@warr.de

We are gladly available for interviews and personal comments. You can also contact the team via e-mail and we will immediately respond. Our direct contact is:

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For further Information, have a look at our websites:

Project WARR Hyperloop
Student group WARR e.V.
SpaceX Pod Competition
Hyperloop Alpha Study

hyperloop.warr.de
www.warr.de
www.spacex.com/hyperloop
www.spacex.com/hyperloopalpha

You can reach us by post at the following address:

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Pictures and Video Material

You can find a selection of free pictures of the project at quest.warr.de/hyperloop

By inquiry, we offer you the published video material in high quality and without any restrictions.