

LEGO-ROBOTICA Competition

Sea Launch congratulates the students of **Donetsk Specialized information Technology Secondary School 61** for creating an award winning re-creation of the Sea Launch *Odyssey* Launch Platform.

The **LEGO-ROBOTICA** competition objective is to develop the engineering, architectural, design skills and communication skills of children through team work on a joint project.



Figure 3 - Students pose for a picture in front of their Lego LP.

The “**Lego LP**” won the top prize in the Lego-Architectural category of the annual festival LEGO-ROBOTICA in Donetsk, Ukraine. The structure was built and designed out of more than 8000 Lego blocks by ten students aged 12-13 years old from the school.

The students were overseen by the headmaster Andrew V. Udovenko and mentored by Yuri Balbanov, and Ivan Shikhat-Sarkisov.

Blyznyuk Ivan, Nikita Denega, twin brothers Kucheruk (Dmitry and Daniel), Igor Ivanov, Yuri Klimenko, Goncharuk Nikita, Mihasko Vladislav, Rybalko Mikhail were all involved in every stage

from selecting topics and gathering information on the project, until the last brick in the design process.



Figure 1 - Students and mentors pose in front of their Lego LP Model at the Donetsk LEGO-ROBOTICA competition.



Figure 2 - Students study available images of the launch platform *Odyssey* as they prepare to build the "Lego LP"



Figure 4 - Testing functional transporter-erector on the Lego LP.

As to why the students chose Sea Launch, Shaikh-Sarkisov said, "The students were interested in the uniqueness and technological complexity of a floating launch pad. Moreover, the first and second stage of the Zenit-3SL vehicle is produced in our country in the nearby national technology center Dnepropetrovsk, which is just 250 km from Donetsk." The judges of the competition were impressed by the student's use of water and a functional transporter-erector system powered by Lego robotics. The Donetsk students were competing against students from 35 other schools and after-school programs in Kiev, Kharkiv, Chernivtsi, Vinnytsia, New Prague, and Kremenchug in the Ukraine.

Serguei Gugkaev, Chief Executive Officer of Sea Launch SA said "We applaud these students interest in science, engineering, robotics and Sea Launch and congratulate them on their win! We are honored that the students chose the *Odyssey* Launch Platform as their project of choice."

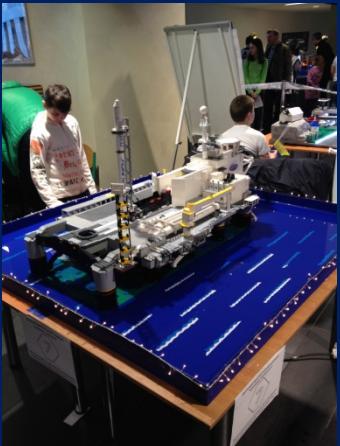


Figure 7 - The Lego LP was presented on a small pool to simulate the Pacific Ocean!

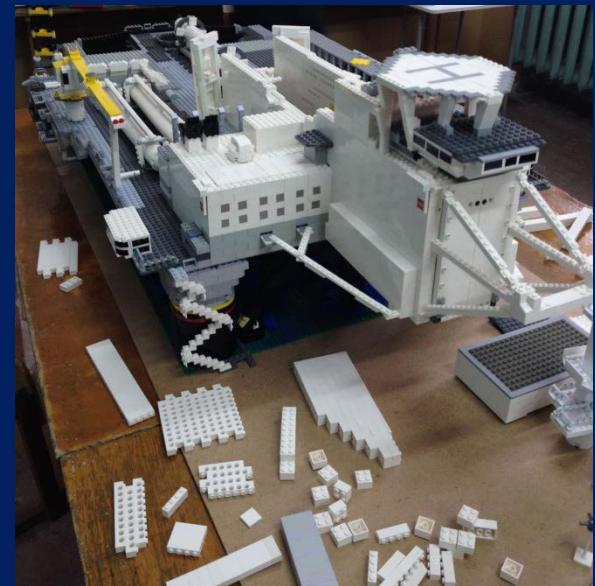


Figure 5 - Figure 5 - The Lego LP is nearing completion



Figure 6 - The students received Lego Minstorms sets as their prize!