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## Press Release

### Swissloop wins again five prizes at the European Hyperloop Week

*Swissloop, the groundbreaking engineering student project from ETH Zurich, caused a sensation and achieved impressive results at the third edition of the European Hyperloop Week in Edinburgh, Scotland.*

With a highly innovative Hyperloop prototype called "Bertrand Piccard," the team of 38 stood up to student competitors from all over the world and won five out of a total of ten awards, including the prestigious "Complete Pod Award" for the best prototype of the entire event.

Swissloop is known for constructing pioneering prototypes that lay the foundation for tomorrow's climate-neutral, high-speed passenger transportation. Every year, the team develops a new, technologically advanced Hyperloop prototype with which they participate in the European Hyperloop Week and compete against other leading student teams.

This year, Swissloop impressed with an approximately 2.5-meter-long and 250-kg prototype that can hover in all directions with the help of electromagnetism. In addition, "Bertrand Piccard" has an innovative linear motor and a special cooling system that works perfectly even in a vacuum, as well as other technical achievements. Already during the first week on site in Edinburgh, the Swissloop team impressed with the smooth assembly of 50 meters of their self-designed track system within only two days. The impressive hover tests and fast runs underlined the excellent work of the team. The decisive week of the European Hyperloop Week began with an intensive testing of the prototype, during which the jury verified its safety and functionality. The team mastered this hurdle with ease and also convinced with a perfect presentation of the individual systems during the pitches. The highlight of the event was the "Demonstration Day", where Swissloop excelled in front of hundreds of spectators and impressed the audience as well as the jury with a fully hovering and exceptionally fast prototype.

Finally, at the awards ceremony, the Swissloop team was awarded a well-deserved recognition. With the "Electrical Subsystem Award", the "Traction Award", the "Würth Electronics Thermal Management Award" and the "Sense & Control Award", the team won four awards. Swissloop is particularly proud of the fifth award, the prestigious "Complete Pod Award", which crowned their prototype the best of the entire European Hyperloop Week. "These awards are an honor for us and a recognition of our hard work and innovation this year," says Carl Brander, team lead for this year's Swissloop season. With the tailwind of these successes, Swissloop is already planning its next challenge: the European Hyperloop Week 2024 in Zurich. The team is determined to continue on the path they have already taken and to integrate even more innovations into their upcoming prototypes.

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## Technical Details

Allgemein General	
Grösse Dimensions	2.50 m x 1.00 m x 0.60 m
Gewicht Weight	245.5 kg
Monocoque	<b>Kohlenstofffaser Sandwich Struktur mit Aluminium Honigwaben-Kern</b> Carbon Fiber Sandwich Structure with Aluminium Honeycomb Core
Batterie Battery	<b>Lithium-Polymer, 16 Module</b> Lithium-Polymer, 16 Modules
Batterie Spannung / Strom Battery Voltage / Current	540 V / 250 A
Antrieb Propulsion	
Motortopologie Motortopology	<b>Linear Geschalteter Reluktanzmotor (LSRM)</b> Linear Switched Reluctance Motor (LSRM)
Kraft Force	2.8 kN
Erreichte Höchstgeschw. Achieved Top Speed	58 km/h (30 m Beschleunigung) 58 km/h (30 m propulsion)
Max. Spulen Strom Max. Coil Current	120 A
Inverter Leistung Inverter Power	194 kVA
Schwebe- & Führungssystem Levitation & Guidance	
Topologie Topology	<b>(Hybride) Elektromagnetische Aufhängung</b> (Hybrid) Electromegentic Suspension
Luftspalt Airgap	5.5 – 17.5 mm (Lateral), 0 – 9 mm (Vertical)
Bremsen Brakes	
Bremssystem Braking System	<b>pneumatisch, 9 bar</b> pneumatic, 9 bar
Max. Entschleunigung Max. Deceleration	2g



## Images

Additional images are available under

<https://1drv.ms/f/s!AiI6yiXM3wahjaUljah04P6ktonTxxg?e=NEta9X>





