



Rauno Gordon

COMPANY: VAAL Airships

POSITION: founder, CTO

WEB: vaalairships.com

SHORT BIO / DESCRIPTION

Rauno Gordon has education in physics and electronics and defended PhD in 2007 in the field of biomedical engineering. For 7 years Rauno has worked on model aircraft and stratospheric balloon-flights as a hobby. The last 4 years Rauno has been program manager for student satellite project in Tallinn University of Technology (satellite.ttu.ee). In 2020 a proper business idea formed how stratospheric balloon-systems can be profitable and VAAL Airships was founded.



TAL TECH

Go2Space-HUBs 
COIMBRA • MADRID • TALLINN

#Go2SpaceHackathon

Tallinn University of Technology

WEB: <https://satellite.taltech.ee/#/>

DESCRIPTION

About the Satellite programme of Tallin University

1. TUT – Mektory Nanosatellite programme is an international, interdisciplinary, university wide programme, carried out by students and professors from different nations, in association with national and international partners from various industries and academia.
2. The student satellite programme provides practical knowhow and experience in engineering and space technology industries, while also receiving credits in their study period.
3. The mission of the TUT – Mektory Nanosatellite programme is to ensure the development of new technologies and provide high quality work force both to Estonia and international high-tech companies.



Go2Space-HUBs has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870370.



www.go2space-hubs.eu

VAAL AIRSHIPS

Low latency network connectivity through high altitude drones

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VAAL AIRSHIPS

DESCRIPTION

VAAL Airships builds and operates HAPS – High Altitude Platform Stations, also known as High Altitude Pseudosatellites.

Since HAPS operate at much lower altitudes than satellites and are capable of staying fixed over a certain spot, it is possible to cover a small region much more effectively. Lower altitude also means much better telecommunications link budget and lower latency compared to satellites. Furthermore, deploying a satellite requires significant time and monetary resources, in terms of development and launch. HAPS, on the other hand, are comparatively less expensive and are rapidly deployable. Another major difference is that a satellite, once launched, cannot be landed for maintenance, while HAPS can be maintained and upgraded easily.



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