



# MATT HARASYMCZUK

*Pilot, Aerospace and Software Engineer, Astrobiologist.  
Working in ESA on Astronaut Lunar EVA*

# MATT HARASYMCZUK

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+48 7332 31337



[matt@astromatt.space](mailto:matt@astromatt.space)



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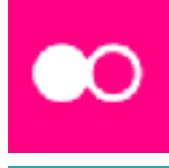
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# ABOUT MATT HARASYMCZUK

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- Matt is a bioastronautics researcher, pilot, engineer (aerospace, software), scientist (biology, geology) skydiver, scuba diver and military combat medic (TCCC, ACLS).
- He currently collaborates on Moon and Mars research with European Space Agency on habitat, 3D bioprinter, photosynthetic bioink, hydroponic and aeroponic plant cultivation, polarized light influence on time perception and human time architecture.
- Matt graduated from project PoSSUM Scientist-Astronaut program where his main focus was on pressurized suit operations, hypoxia, human performance in micro-g and high-g environment.
- Favorite quote: "Per aspera ad astra".



# ASTRONAUT TRAINING

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- Aerospace Engineering
- Aviation and Aerobatics
- Biology and Bioengineering
- Chemistry and Material Science
- Education
- Engineering (Robotics, Mechanical, Software)
- Geology and Planetary Science
- M.A.R.S. habitat
- Analog Simulations
- Medicine (Tactical, Aerospace, Emergency, Radiology)
- Physical Activity and Sports
- Public Speaking
- S.T.E.A.M.
- Sea Survival and Scuba Diving
- Simulators
- Skydiving
- Space Suit
- Stratosphere and Mesosphere Science
- Tactical Combat and Military
- V.I.P.
- You'll never walk alone



# AEROSPACE ENGINEERING

Rocket Science, Spacecraft Design, Control Theory



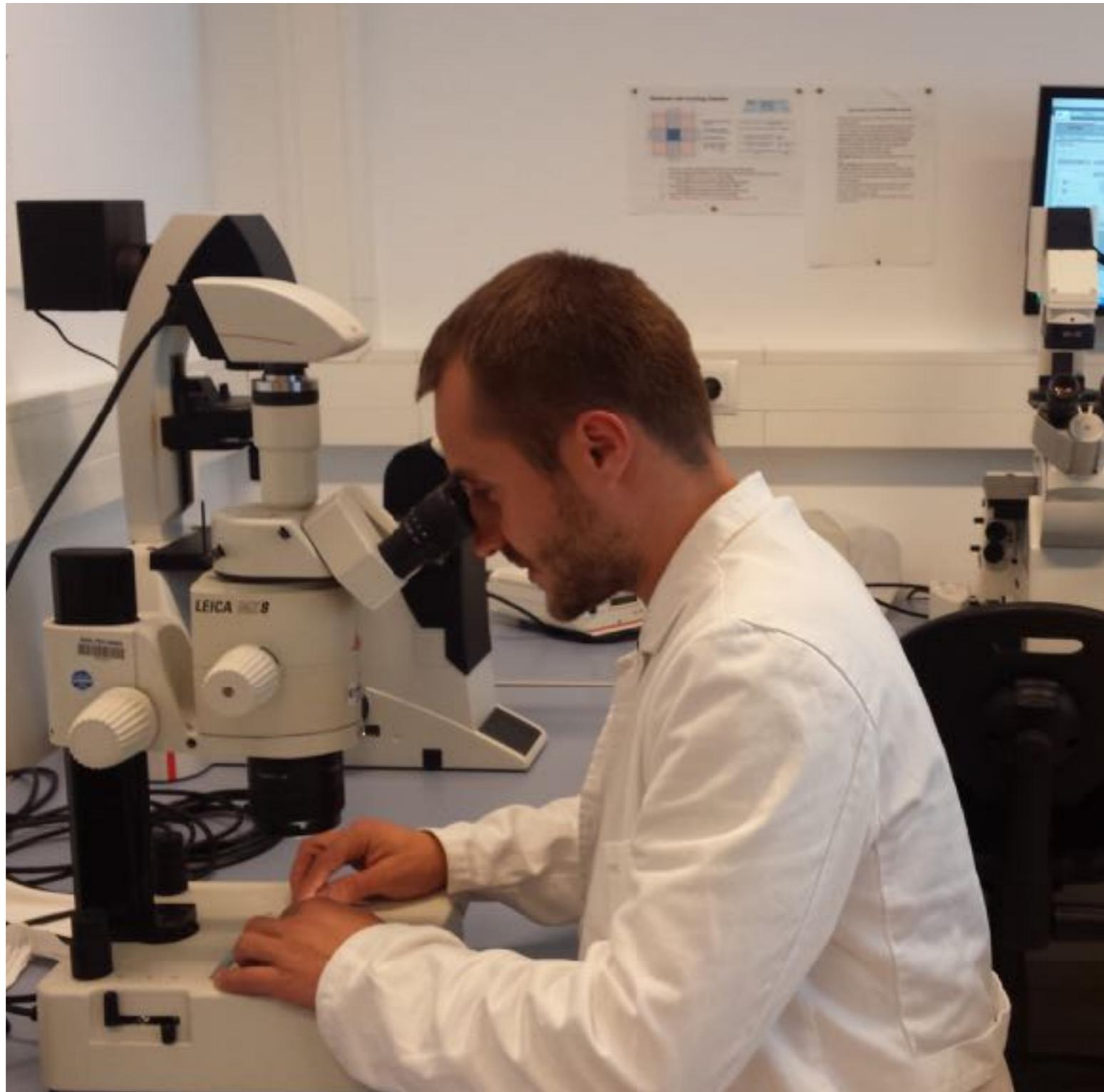
## AVIATION AND AEROBATICS

- High-g and Micro-g Familiarization, Aircraft Operations in Stress Conditions

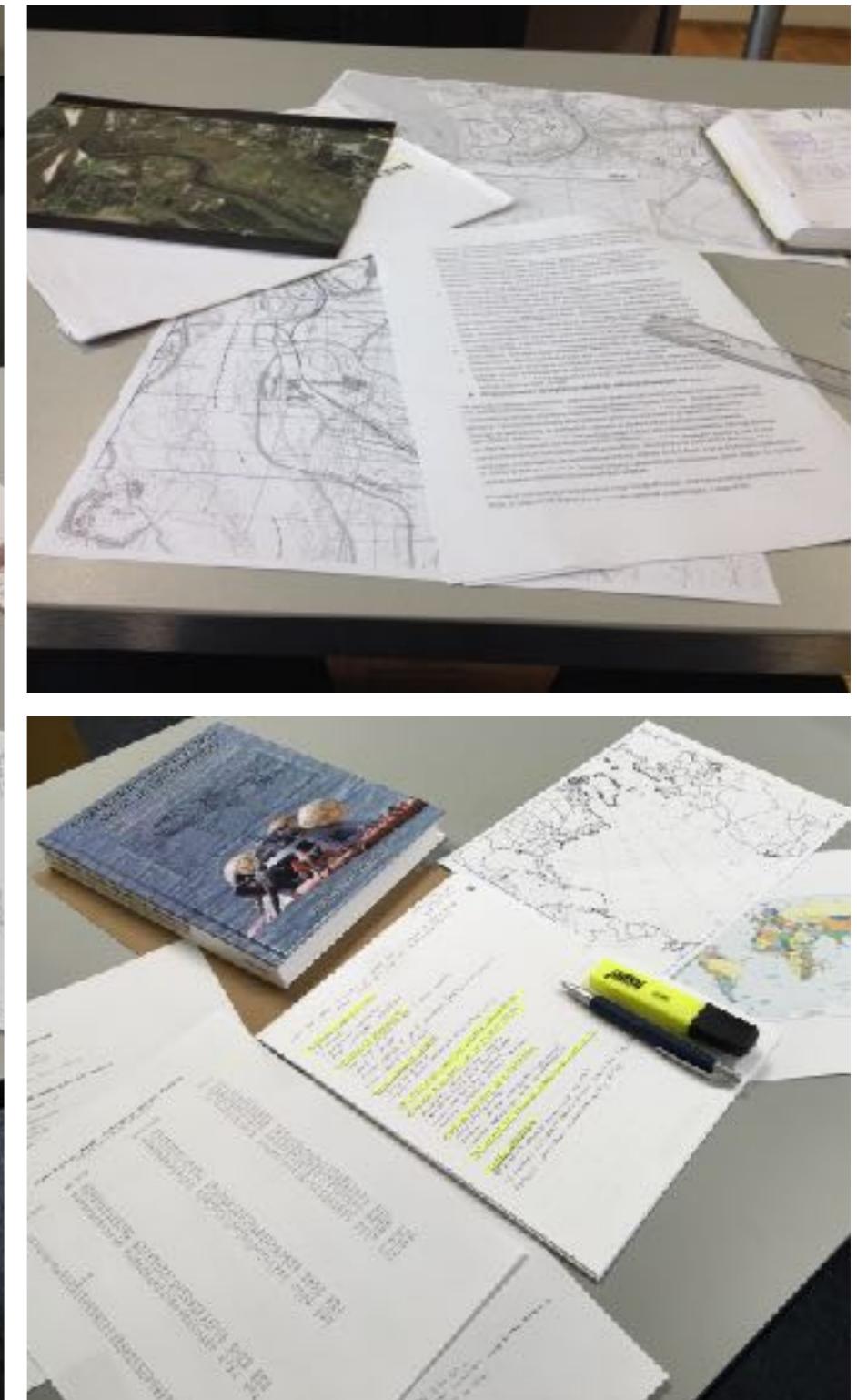
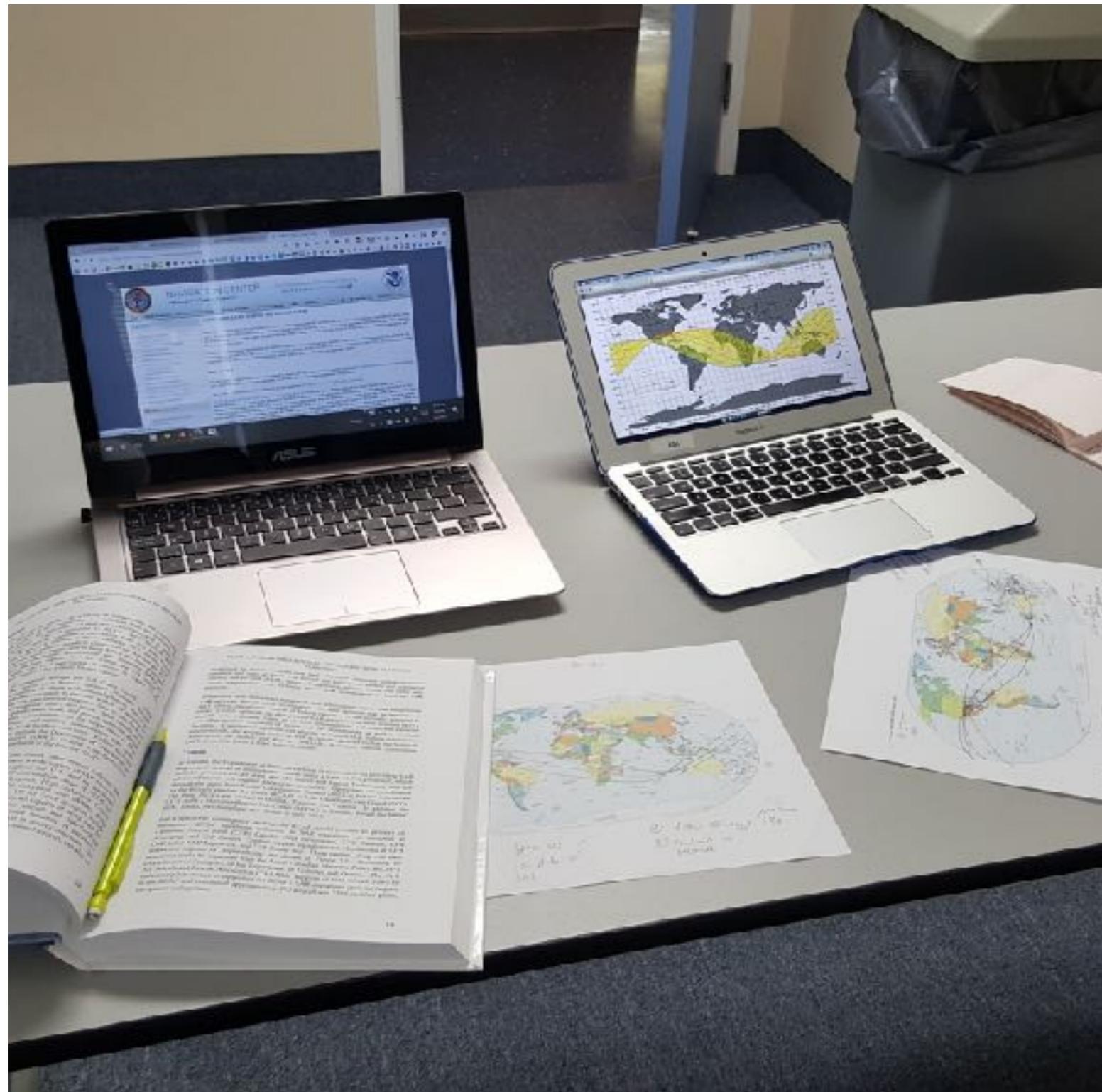


# BIOLOGY AND BIOENGINEERING

Hydroponic and Aeroponic Plant Cultivation, DNA Slicing and Sequencing

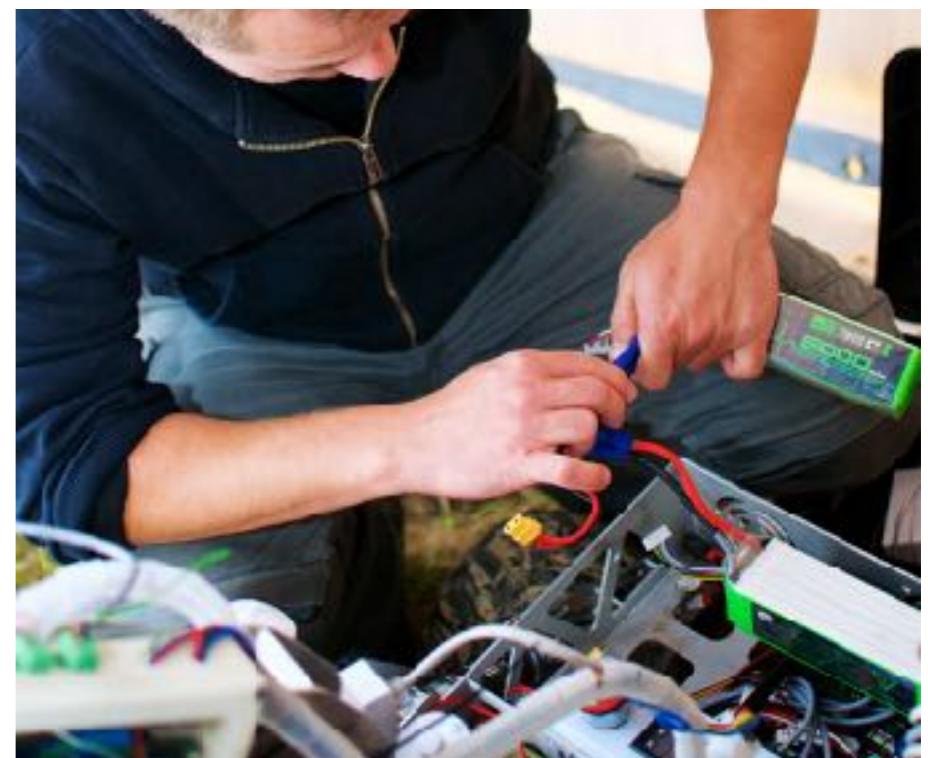
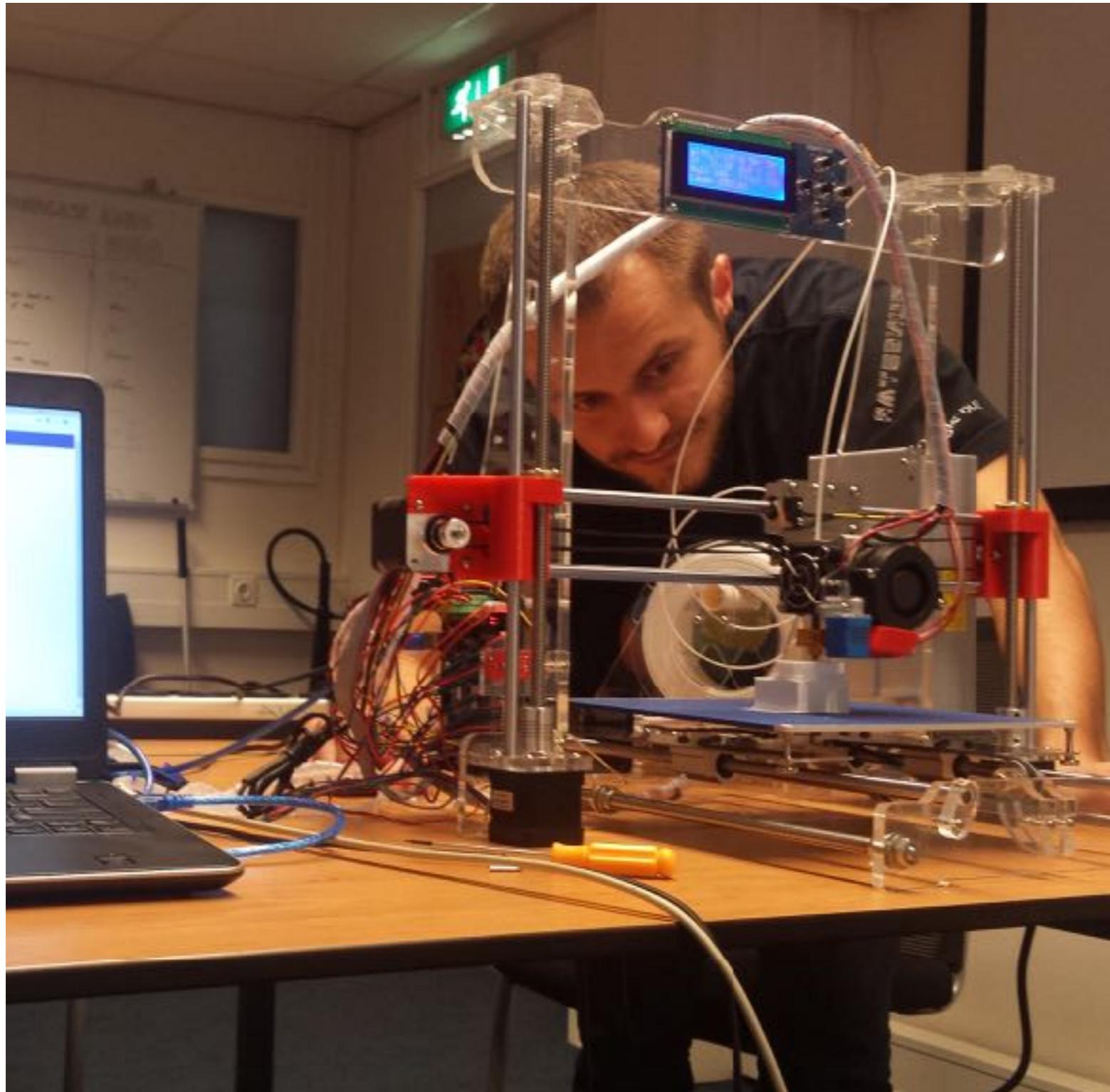


# CHEMISTRY AND MATERIAL SCIENCE



# EDUCATION

Orbital Mechanics, Atmosphere Science, Photography, Russian Language



# ENGINEERING

Robotics, Mechanical, Software



# GEOLOGY AND PLANETARY SCIENCE

Identification, Sampling, Documentation, Spectrometry, Non-Contamination Drilling



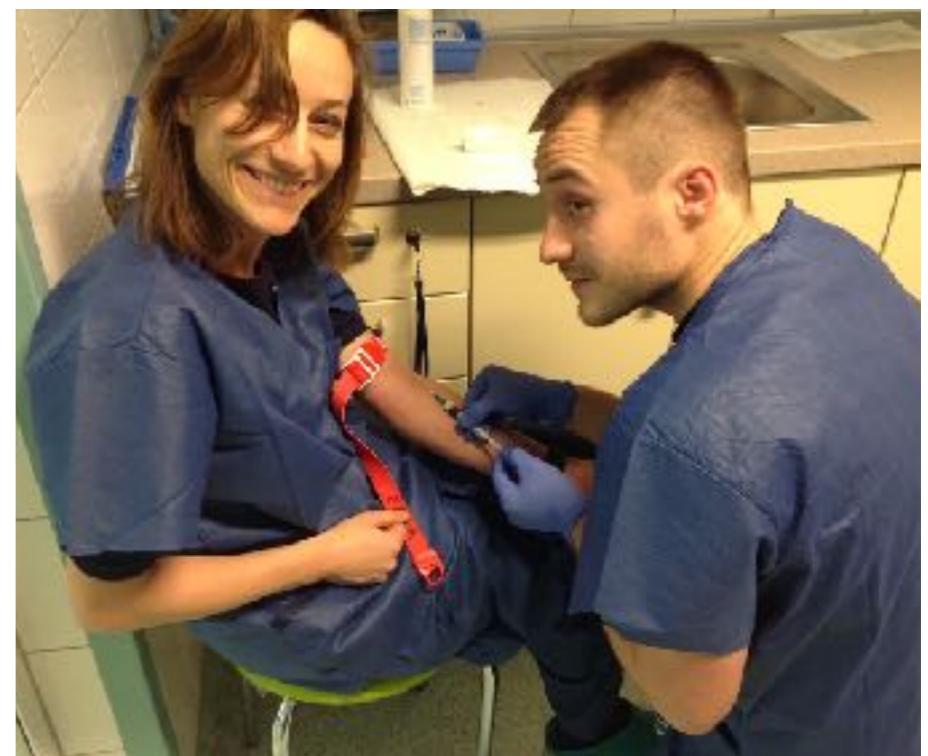
# M.A.R.S. HABITAT (MARSHUB.ORG)

Hydroponic Greenhouse, Geo/Chem/Biol Laboratory



# ANALOG SIMULATIONS

Psychology of Isolation, Social Group Dynamics, Geology, Telemedicine, Human-Robot Interaction



# MEDICINE

Aerospace, Emergency, Tactical, Radiology



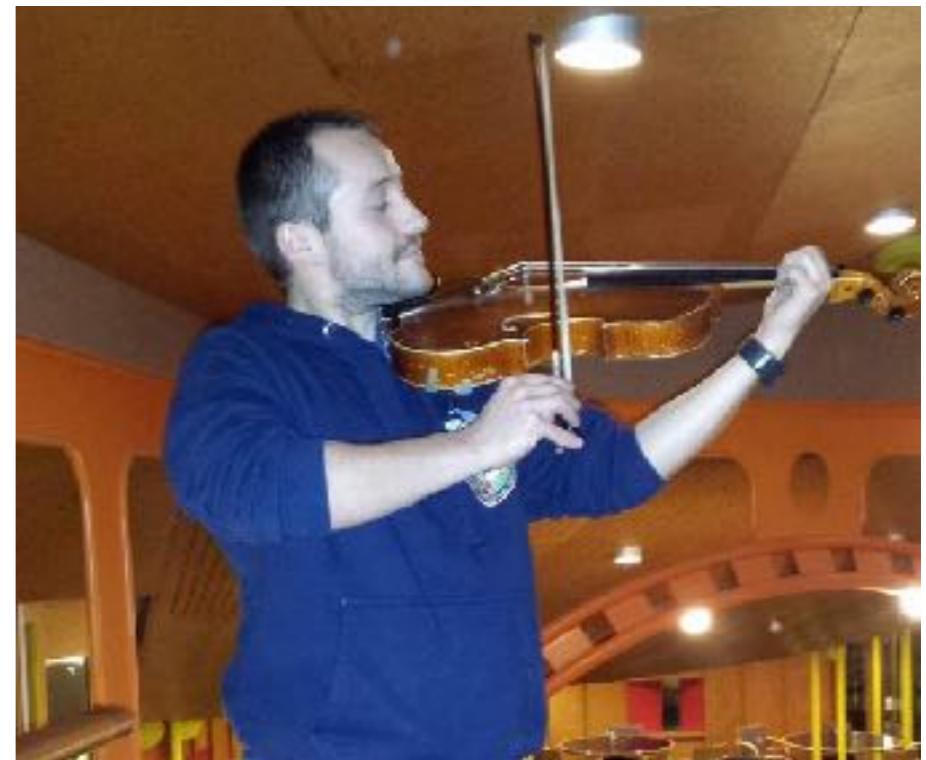
# PHYSICAL ACTIVITY AND SPORT

Prevent Muscle Mass and Bone Density Loss



# PUBLIC SPEAKING

Science and Space Advocacy



# S.T.E.A.M.

Public Awareness Through Art and Science



# SIMULATORS

Ascent, Descent, Docking, Undocking, Emergency: Fire, Depressurization



# SEA SURVIVAL AND SCUBA DIVING

METS Trainer, SWAT Trainer, Neutral Buoyancy, Rescue Diver



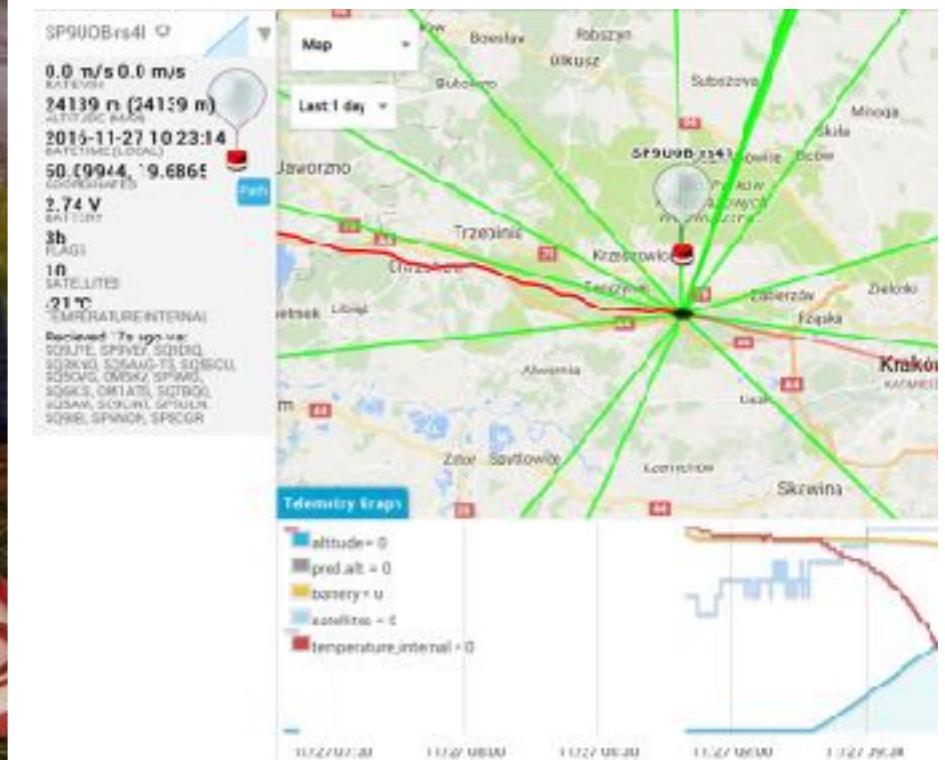
# SKYDIVING

Free Fall, Aerodynamic Tunnel



# SPACE SUIT

Pressurized Suit Operations



# STRATOSPHERE AND MESOSPHERE SCIENCE

# Upper Atmosphere Extremophiles, ELF - Extremely Low Frequencies, Noctilucent Clouds



# TACTICAL COMBAT AND MILITARY

Teamwork, Agility, Leadership



# V.I.P.

Astronauts, Spacewalkers and Moonwalkers



# YOU'LL NEVER WALK ALONE...

Teamwork, International, Multicultural, No boarders from space...

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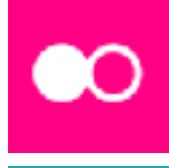
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