



MATT HARASYMCZUK

*Bioastronautics Researcher, Aerospace and Software Engineer, Pilot
Working with ESA on Astronaut Lunar Extravehicular Activity*

MATT HARASYMCZUK



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ABOUT MATT HARASYMCZUK



- 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

- 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



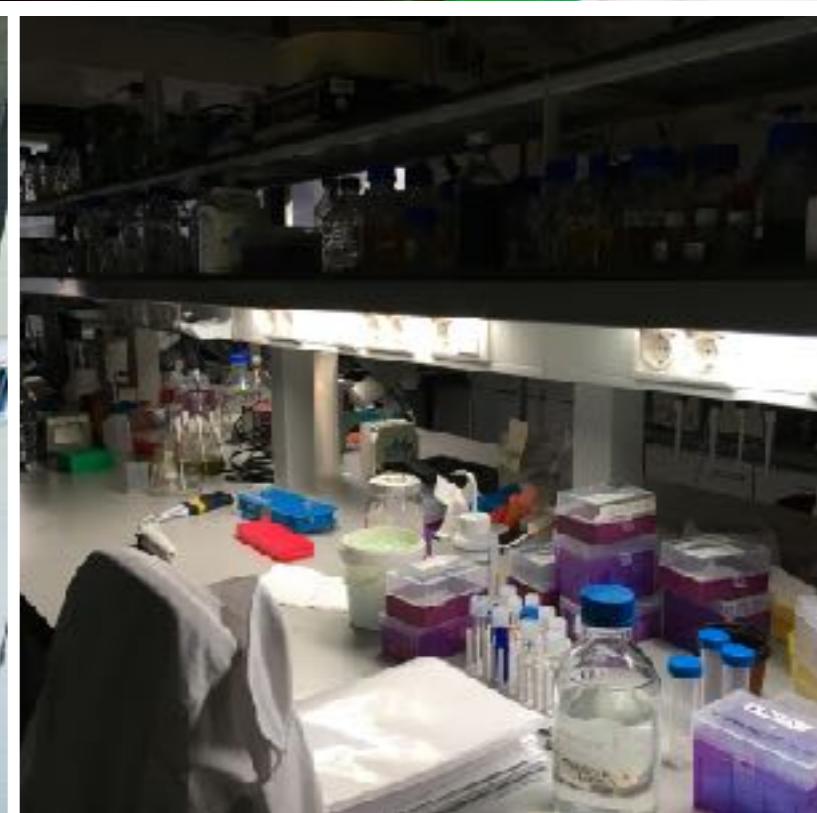
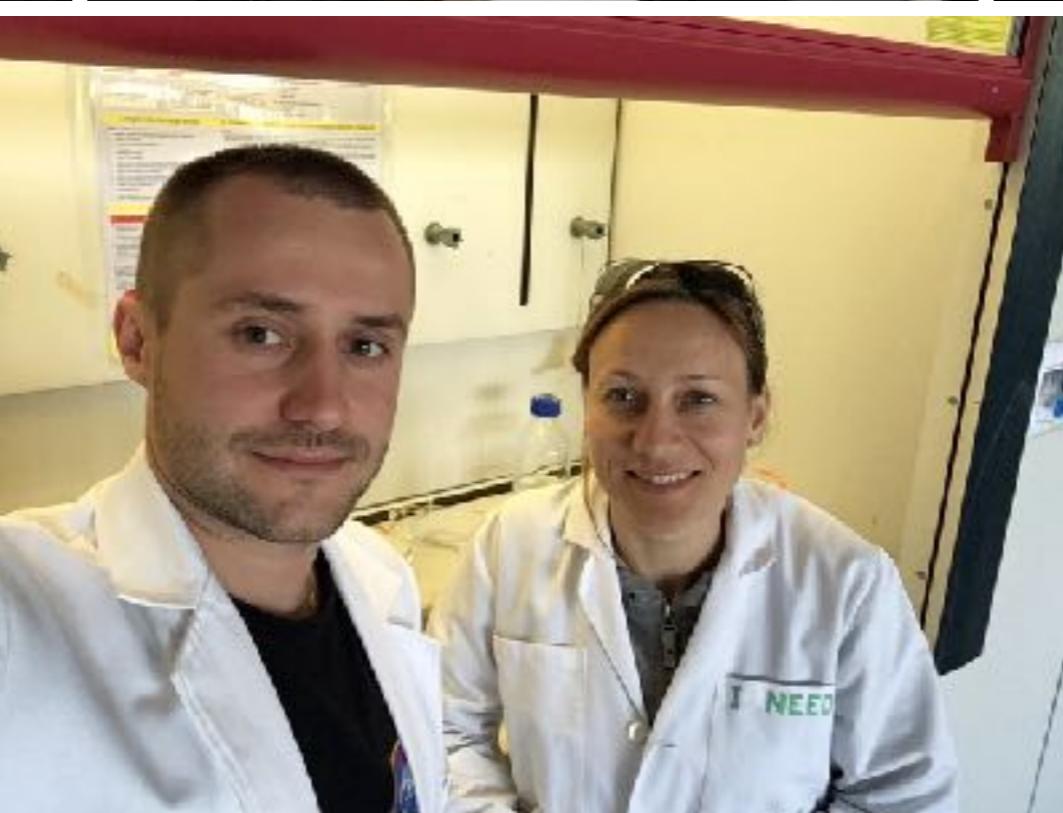
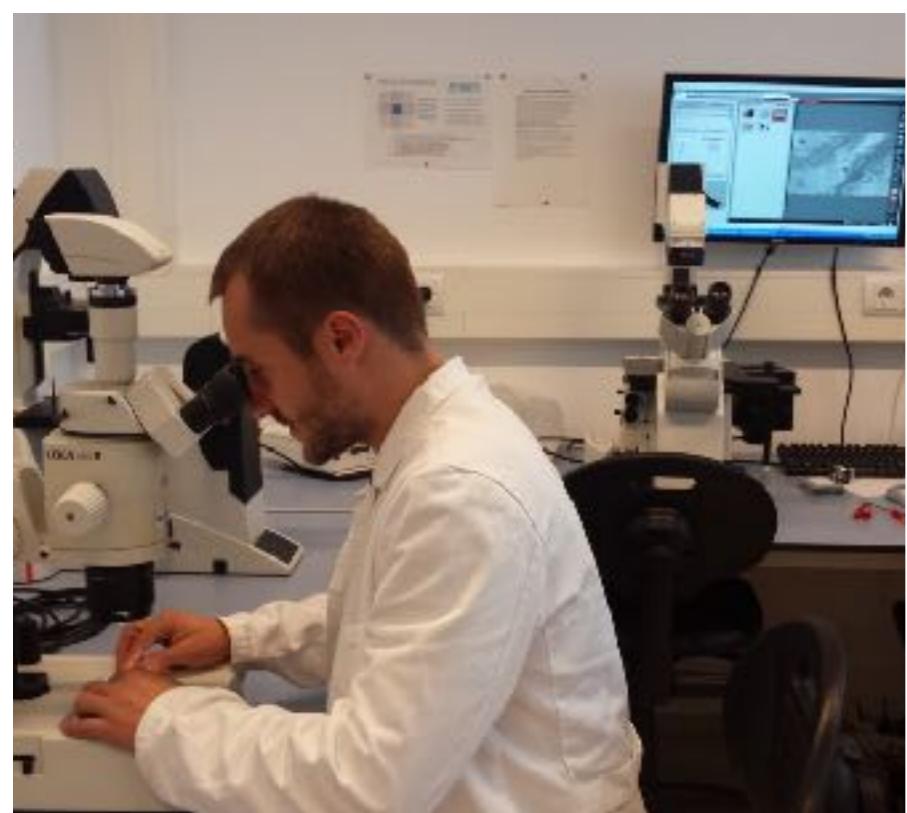
AVIATION AND AEROBATICS

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

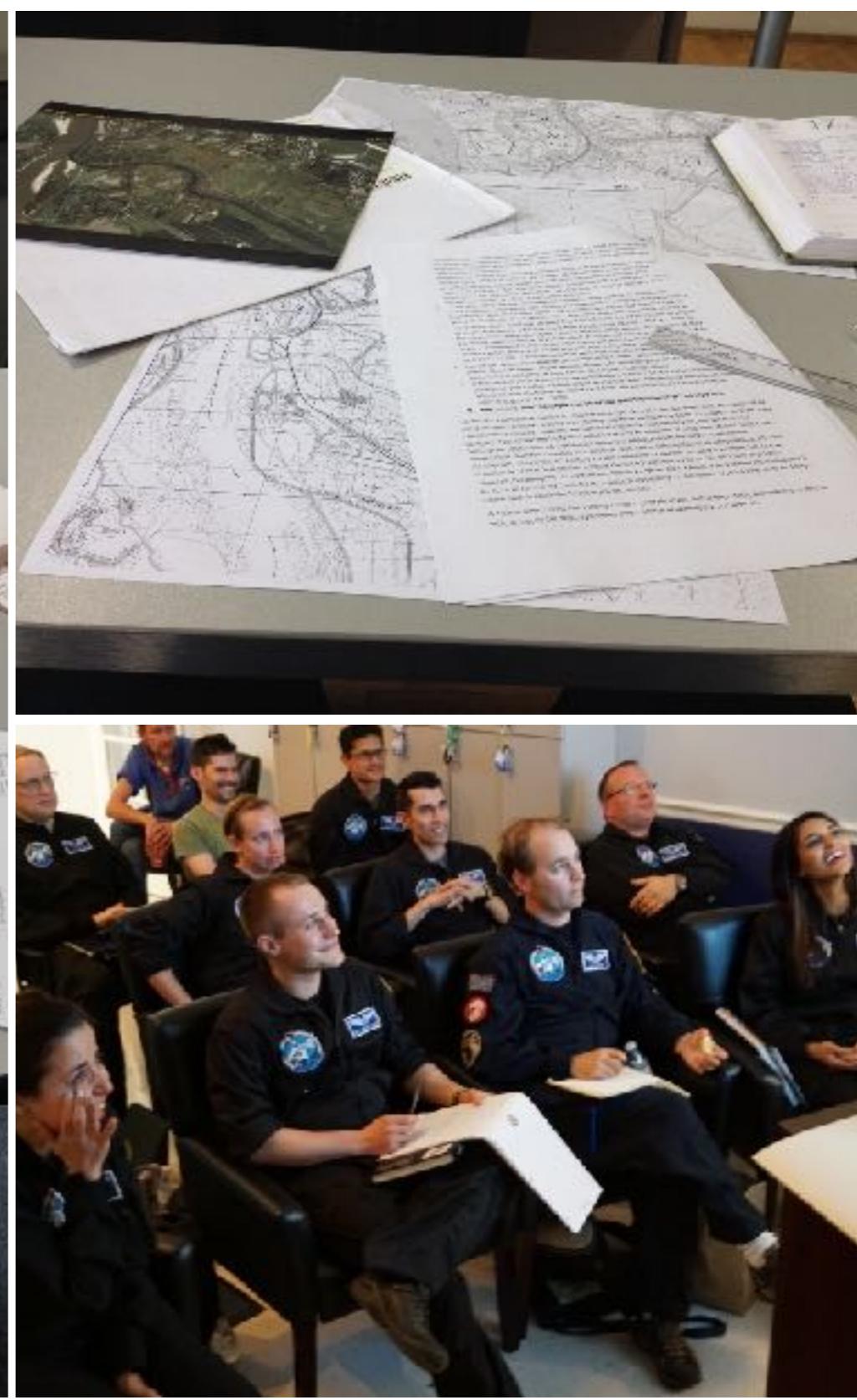
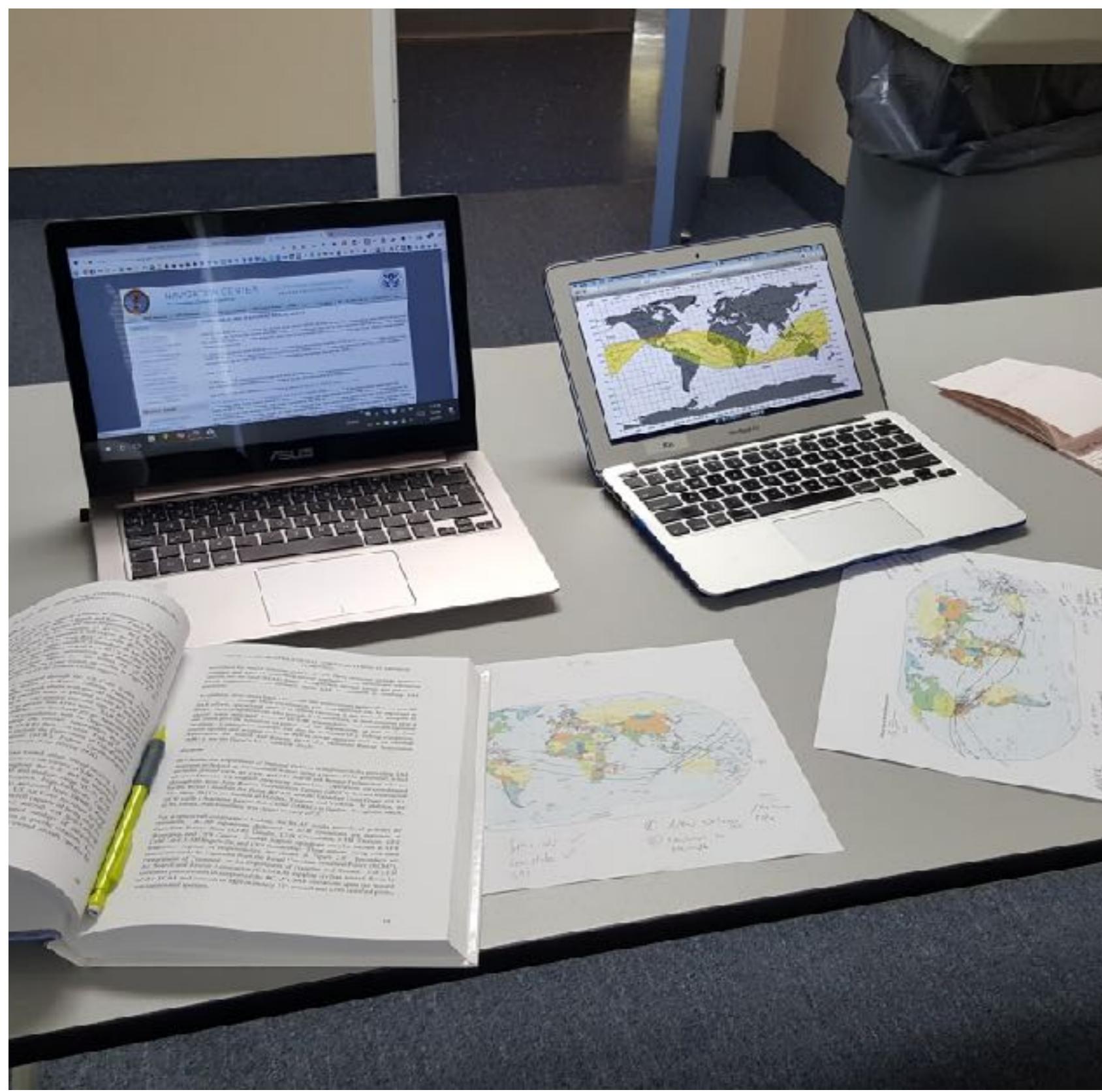


BIOLOGY AND BIOENGINEERING

Hydroponic and Aeroponic Plant Cultivation, DNA Slicing and Sequencing



CHEMICAL ENGINEERING AND MATERIAL SCIENCE



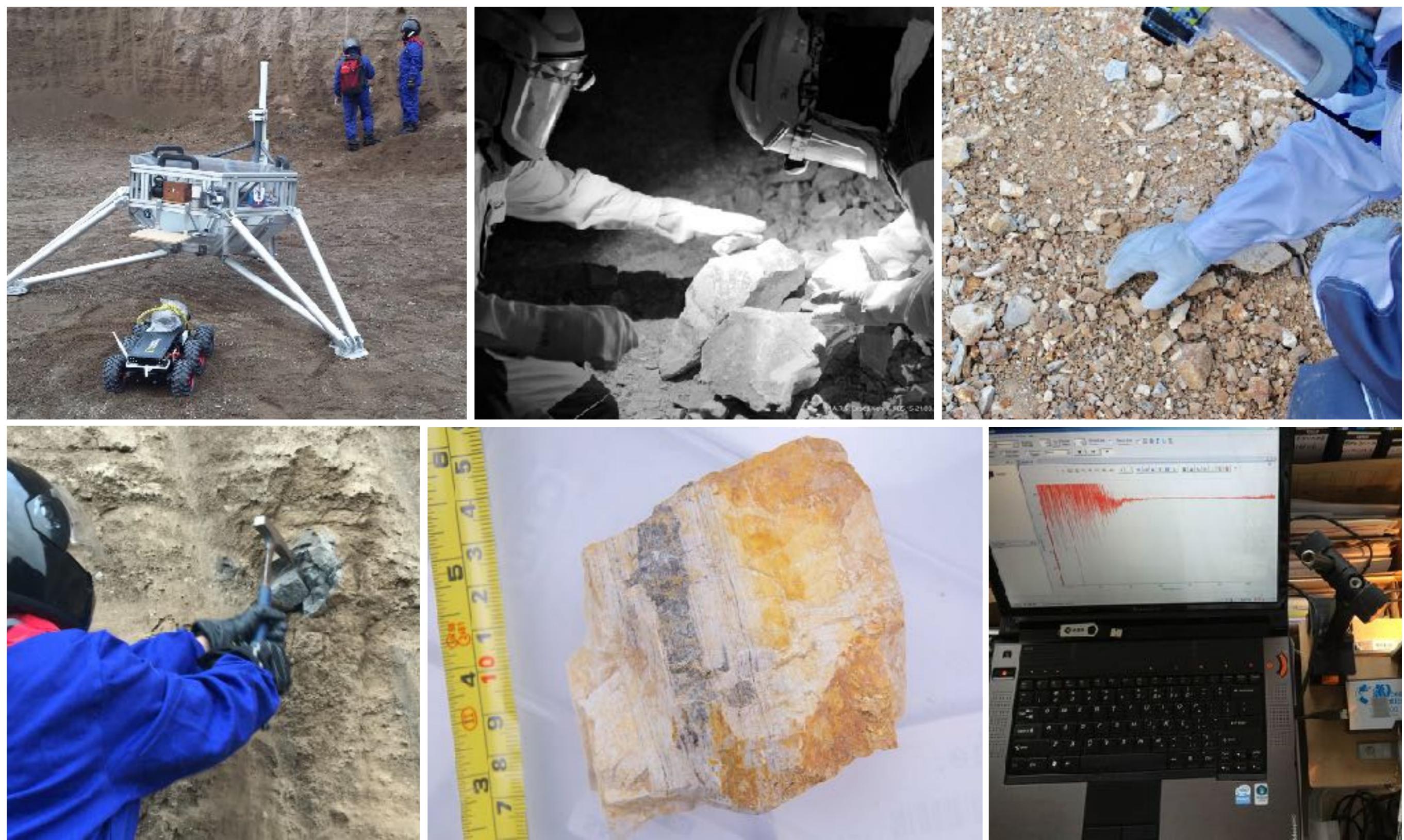
EDUCATION

Orbital Mechanics, Atmosphere Science, Photography, Russian Language



ENGINEERING

Robotics, Mechanical, Software



GEOLOGY AND PLANETARY SCIENCE

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



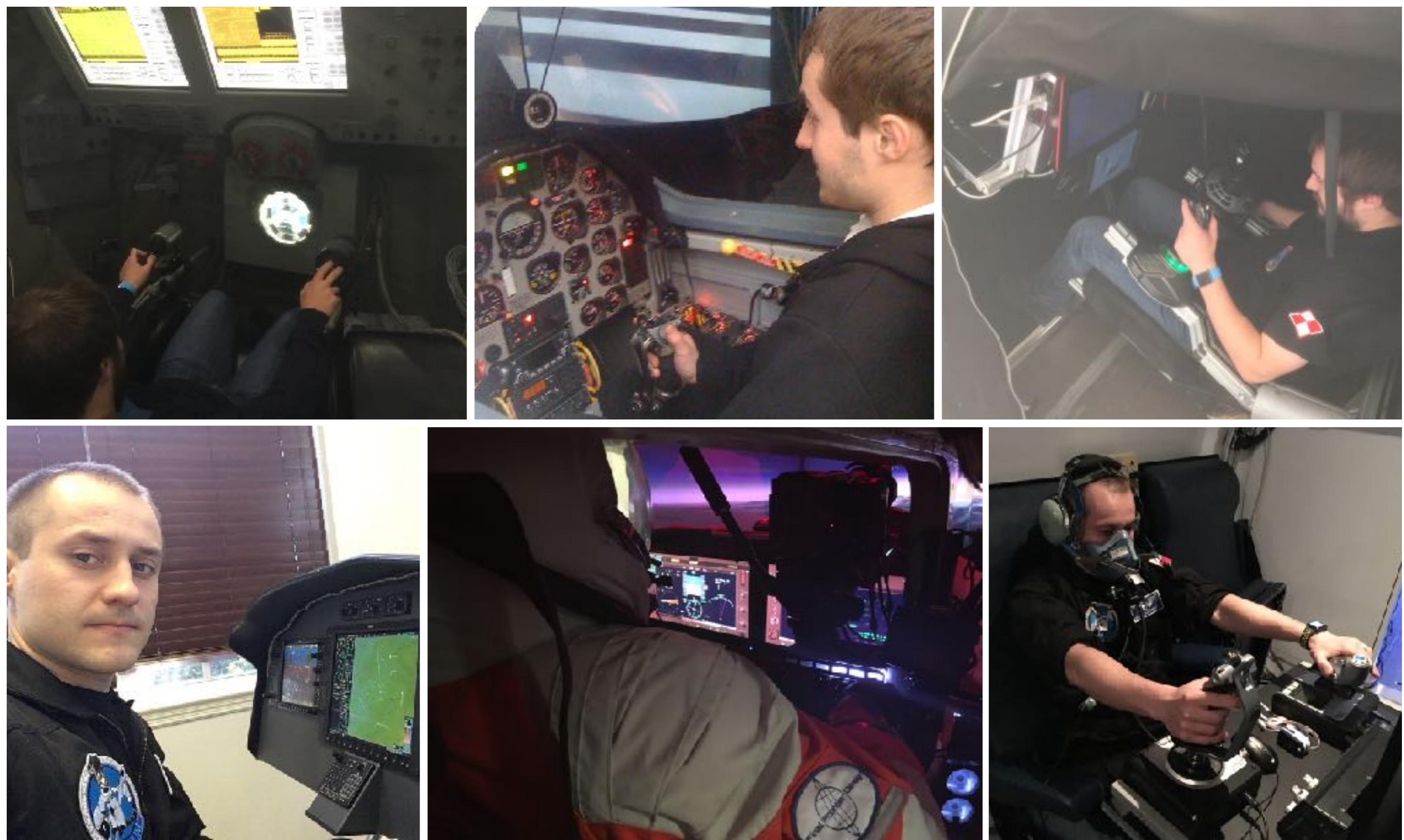
M.A.R.S. HABITAT (MARSHUB.ORG)

Hydroponic Greenhouse, Geo/Chem/Biol Laboratory



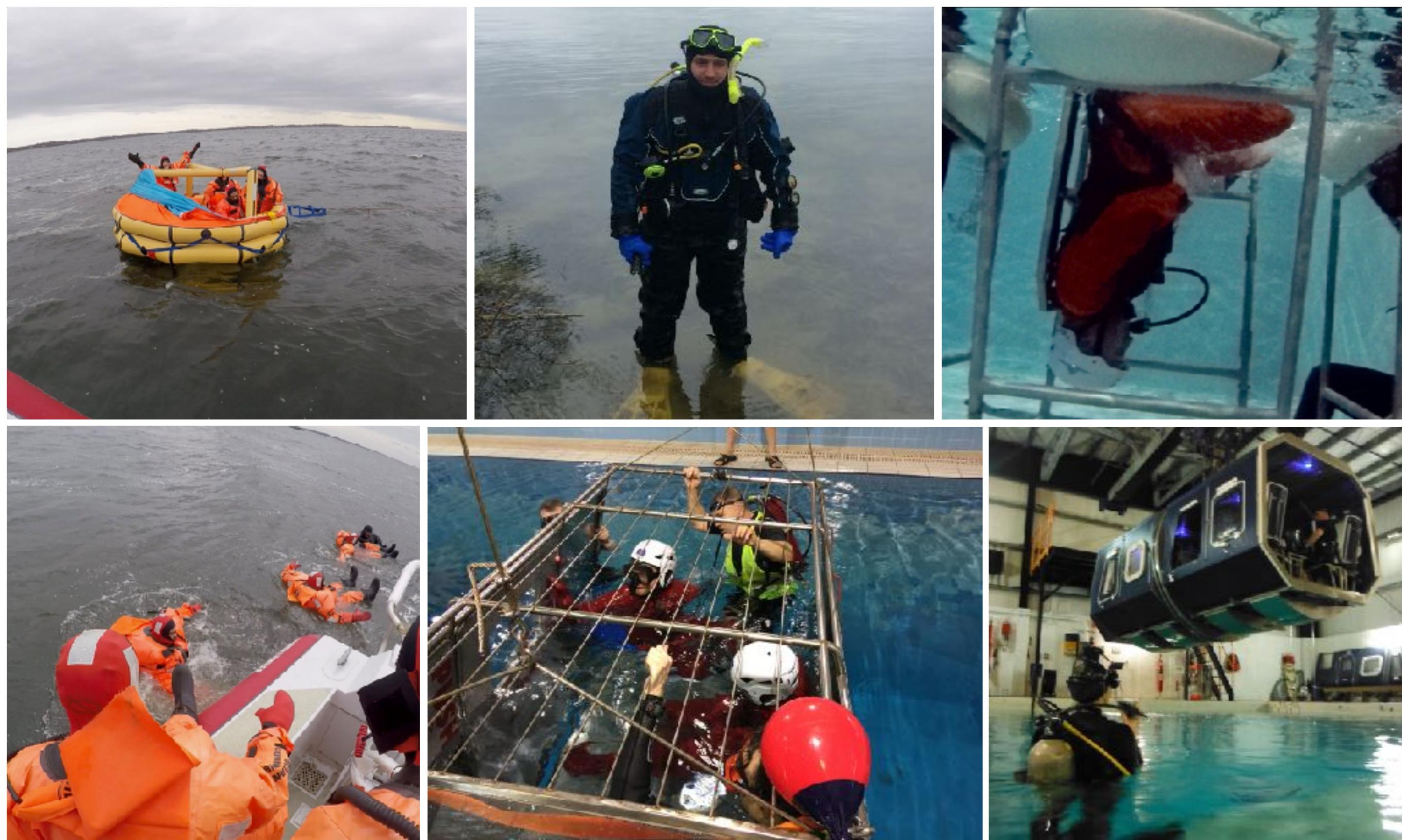
ANALOG SIMULATIONS

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



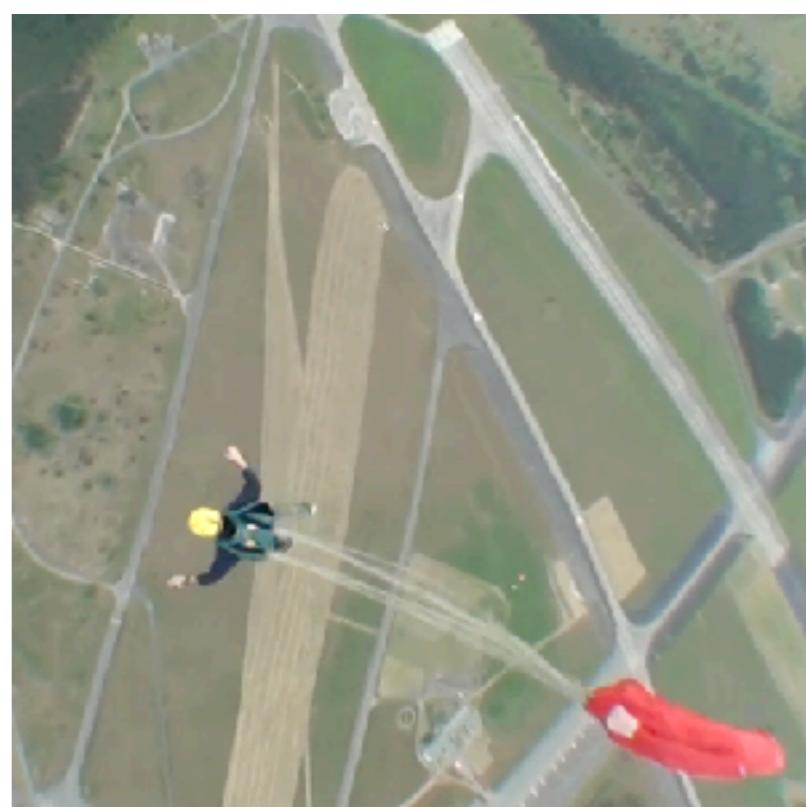
SIMULATORS

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



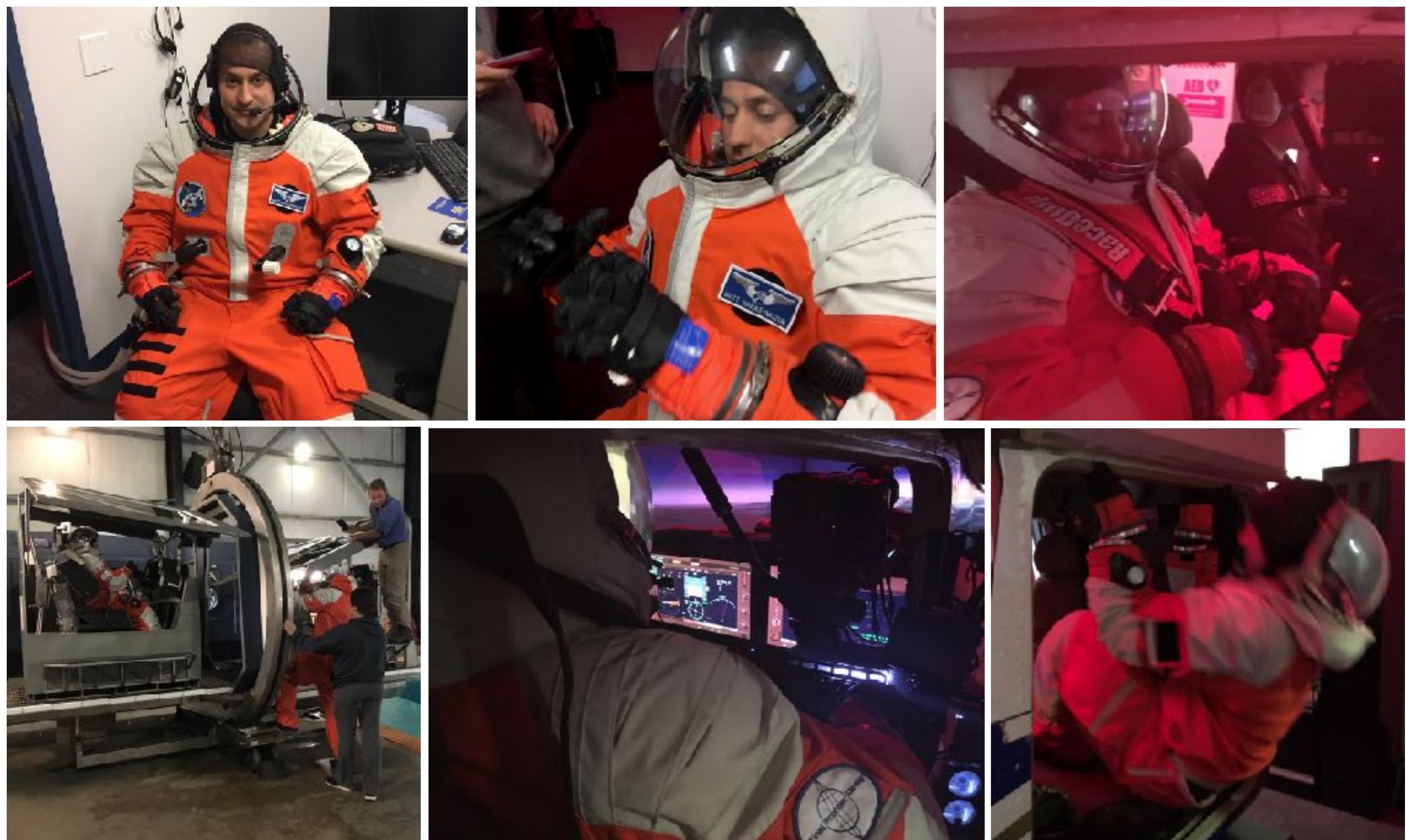
SEA SURVIVAL AND SCUBA DIVING

METS Trainer, SWAT Trainer, Neutral Buoyancy, Rescue Diver



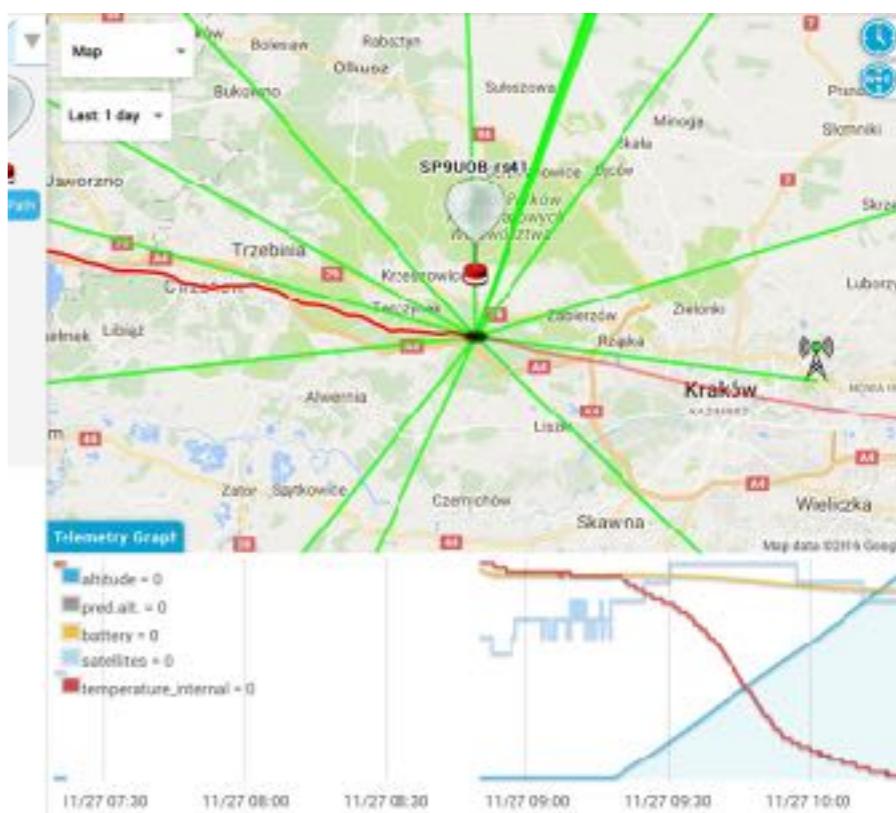
SKYDIVING

Free Fall, Aerodynamic Tunnel



BIOASTRONAUTICS AND SPACE SUIT

Space Suit Design, Pressurized Suit Operations



STRATOSPHERE AND MESOSPHERE SCIENCE

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



TACTICAL COMBAT AND MILITARY

Teamwork, Agility, Leadership



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



V.I.P.

Astronauts, Spacewalkers and Moonwalkers



YOU'LL NEVER WALK ALONE...

Teamwork, International, Multicultural, You don't see any boarders from space...

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