

MYKYTA HOLUBETSKYI

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ABOUT ME — I am an international student from Ukraine currently studying at Arizona State University as an undergraduate Aerospace Engineer. I am incredibly passionate about space and rockets, which is why I am a member of the [Student Organization SEDSRD at ASU](#) club where I have hands on experience of design, manufacture and simulation. I aspire to become a professional aerospace engineer specializing in propulsion and R&D so that I can expand the reach of humanity with space travel and space living.

EDUCATION

Arizona State University Bachelor in Aerospace Engineering 3.3 GPA

2023 - 2027

ACADEMIC PROJECTS

- Custom Hybrid Rocket Motor M527** Sep 2025 - Jun 2026
Worked on custom liquid nitrous high power rocket hybrid motor with complex geometry 3D printed post processed ABS plastic fuel grain that reached 600.51 lbs peak thrust as a hybrids co-lead at [SEDS RD at ASU](#) for IREC 2026. Three different shapes of grain were tested; round grain surface, star shaped grain surface and a swirled star grain surface. Developed and manufactured [Static Fire Test Stand](#) with a load cell and fueling setup on which 12 hot fires were conducted. Diagnosed and fixed such problems as defective valves, leaky piping, unstable cryogenics temperature, fill detection failure and suboptimal ignition.
- Capstone Rocket Hybrid Motor Research and Mission Statement** Sep 2025 - Jun 2026
Research and development of optimized of grain shape, additives and improved procedures is my capstone during senior year in ASU furthering the high power rocket hybrid motor project. Six different grain shapes were simulated and will be tested on a 54mm diameter motor system and then scaled up to a 98mm diameter motor system to verify results. Preheater and post mix sections were simulated and will be tested. Also chemical additives will be tested for best burn facilitation and propagation including ABS, PLA and copper.
- Rocket Project Cactus Cooler** Sep 2025 - Dec 2025
Manufactured, developed procedures and flied [Cactus Cooler](#). A 12 ft robust rocket, R&D testbed for custom hybrid motor M527 . This is a single-stage, single-set, single-deploy fiberglass rocket designed to fly to 7000 ft at Mach 1.5 to test the hybrid motor performance and custom avionics reliability.
- Students for the Exploration and Development of Space Rocketry Division at ASU (SEDSRD)** Oct 2023 – Present
Part of SEDS RD at ASU club where gained extensive hands-on knowledge of engineering and as this club was restarted in 2024 was part of it from the beginning, from being a part of the small team working personally on every part of the rocket at the same time, to working with dozens of people and leading others on complex collaborative projects. I have also led a rocketry certification class of 8 people teaching new members of the club rocketry fundamentals and guiding them on a journey to obtain their L1 rocketry certification.

CERTIFICATE AND AWARDS

- Experimental Sounding Rocket Association (ESRA) International Rocket Engineering Competitions**
IREC 2026 Jun 2025 - Jun 2026 IREC 2025 Jun 2024 - Jun 2025 Spaceport 2024 Sep 2023 - Jun 2024
Participated in IREC the largest rocketry competition in the world three years in a row from 2024 to 2026 as part of SEDSRD at ASU. Employed such roles as a [Propulsion Co-Lead](#), [Lead Machinist](#), Composite Manufacturing, CAD and Simulation Specialist. Have both worked as a part of a small team of individuals with broad range of projects each and as a part of a large team with many specialized subdivisions. In IREC 2024 our team won the sportsmanship award, in IREC 2025 our team won 7th place in our category of Commercial Off The Shelf (COTS) solid motor rocket, and in IREC 2026 our team won 4th place in a harder category of Student Research And Designed (SRAD) hybrid motor rocket. All of the rockets were designed and developed in the club and were a dual set, dual deploy, custom electronics with commercial backup setup, with carbon fiber lower body and fiberglass upper body structure.
- L1/L2 NAR High-Power Rocketry Certificate** Nov 2023 - Feb 2024
Obtained L2 NAR rocketry license through successfully designing, simulating, launching and recovering two personal rocket projects one significantly modified kit and one Student Research And Designed (SRAD). These two projects involved engineering design, software such as Open-Rocket, RASAero, Fusion 360 and ANSYS and high power rocketry knowledge in general.

TECHNICAL COMPETENCIES

Software	Fusion 360, Solidworks, Ansys, OpenRocket	Proficiencies	Composites, Soldering, Tig, Mig, CNC, Lathe
Language	English [C1], Ukrainian [Native], Russian	Programming	Python, C + +, MATLAB