

JULIUS BARTAŠEVIČIUS

DR.-ING. · AEROSPACE ENGINEER

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Aerospace engineer who takes research aircraft from drawing board to flight line. Flight Test Manager for the FLEXOP and FLIPASED projects, leading the campaigns of a 65 kg, 7 m-wingspan jet-powered demonstrator, the first unmanned subscale aircraft to demonstrate active flutter suppression in real-world conditions. Doctorate on the estimation and in-flight measurement of drag for medium-sized fixed-wing UAVs.

01 EXPERIENCE

2025 - 2026

Planning Engineer

Defence Staff, Lithuanian Armed Forces · Vilnius, Lithuania

- Planning of autonomous aerial systems: technology trends, UAV implementation, operational requirements and interoperability across the military branches.
- Awarded the Land Forces Medal for Distinguished Service.

2017 - 2024

Researcher & Flight Test Manager

Institute of Aircraft Design, Technical University of Munich · Germany

- Flight Test Manager for the FLEXOP and FLIPASED projects (EU H2020; TUM, SZTAKI, DLR, ONERA): ConOps, flight test cards, team training and operations.
- Held SORA approval responsibility for the 65 kg T-FLEX demonstrator under EU 2019/947.
- Doctoral research on in-flight drag measurement of fixed-wing UAVs; designed a thrust measurement system for a pylon-mounted miniature jet engine.
- Aeroservoelastic modelling, post-flight data reduction and wind-tunnel validation; supervised 17 student theses; research exchange at Embry-Riddle Aeronautical University, 2023.

2016 - 2017

Engineer

LAK Sailplanes · Lithuania

- Sailplane development and certification flight test supervision for the miniLAK.

02 EDUCATION

Defended 2026

Dr.-Ing., Technical University of Munich

Drag Estimation and In-Flight Measurement for Medium-Sized Fixed-Wing UAVs

2011 - 2016

MEng Aeronautical Engineering, University of Glasgow

Exchange years at UC Irvine and TU Munich

03 SELECTED PROJECTS

Doctoral

In-flight drag measurement of UAVs

End-to-end flight-test data workflow, system identification of drag components, in-flight thrust measurement and wind-tunnel validation.

EU H2020

FLEXOP & FLIPASED, T-FLEX demonstrator

First successful active flutter suppression on an unmanned subscale aircraft in real-world conditions, on an aeroelastically tailored wing.

Master's

Delta-wing flow control by unsteady leading-edge blowing

Force-balance and time-resolved PIV measurements; up to ~40% lift increase at post-stall incidence.

04 SKILLSET

Flight test operations

- Test planning, ConOps and flight test cards
- Flight test team leadership and training
- SORA approval for a 65 kg UAV under EU 2019/947
- Certification flight test supervision (miniLAK sailplane)

Aerodynamic testing & modelling

- Wind tunnel force and PIV measurements
- In-flight tuft and oil-flow visualisation
- Semi-empirical, VLM and CFD modelling; aero databases

Licences & distinctions

- Sailplane Student Pilot Licence (LET L-13 Blanik): 17 flight hours, 76 flights
- Aviation Medical Certificate, Class 2

Tools

MATLAB	STAR-CCM+	OpenVSP / VSPAERO	TORNADO
FlightStream	XFLR5	SolidWorks	

Data analysis & system identification

- Flight data workflows: filtering, sensor correction, calibration
- Analysis GUI design for flight test campaigns
- Output-error, equation-error and stepwise regression methods

Project & team leadership

- Manufacturing and assembly planning
- Communication rules, logistics, campaign coordination
- 17 supervised student theses
- German Flight Radiotelephone Operator's Certificate (BZF I)
- Top 400, European Space Agency astronaut selection

Languages

Lithuanian (native)	English (fluent)
German (B2)	

05 SELECTED PUBLICATIONS — FIRST AUTHOR

2024 Lessons learned from flight testing active flutter suppression technologies
IFASD 2024

2023 In-flight drag measurement and validation for a medium-sized UAV
AIAA SciTech Forum · doi 10.2514/6.2023-0372

2023 Flight testing for flutter — operational design and lessons learned
SFTE International Symposium

2022 Design and testing of an in-flight thrust measurement system for a pylon-mounted miniature jet engine
AIAA SciTech Forum · doi 10.2514/6.2022-1827

2021 Flight testing of 65 kg T-FLEX subscale demonstrator
ICAS Congress

2016 Discrete vortices on delta wings with unsteady leading-edge blowing
AIAA Flow Control Conference · doi 10.2514/6.2016-3170

Ten further co-authored papers (AIAA SciTech, ICAS, Experiments in Fluids). Full list at www.bartas.space and on Google Scholar.

06 BEYOND WORK

- Fifteen years in the Lithuanian Scout movement; camp commandant for 150 people.
- Cycling aerodynamics: time trials in Lithuania, Germany and Austria.
- Budapest–Bamako 2022 amateur rally, raising funds for a school in Sierra Leone.
- Gliding, camping, hiking; restoring a 40-year-old car and playing instruments.