Mr. Maksim Trifonov, PhD

Day of birth	13th May 1990
Place of birth	Sobinka, USSR

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Work experience

11/2021 – present (full time) 📍 Berlin, Germany
Researcher (PostDoc) / Systems Engineer
Department of Design and Operation of Maritime Systems, Research group Underwater technology, Technical University Berlin

Development of a simulation framework in Matlab&Simulink to validate an AUV concept; modeling and simulation of mechatronic systems: GNC, fuel cell, propulsion and other systems; system analysis and optimization of autonomous maritime systems; research project MUM (Large Modifiable Underwater Mother Ship).

01/2020 – 10/2021 (part-time) 📍 Brunswick, Germany
Freelance Researcher

Efficiency analysis of a hybrid power system combining solar and wind power with battery storage using Monte Carlo simulation; statistical analysis of key indicators of the power system taking into account the spatio-temporal correlation of wind speed.

10/2018 – 12/2019 (part-time) 📍 Moscow, Russia
Lecturer / Research Engineer
Institute of System Analysis und Control, Moscow Aviation Institute (National Research University)

General support of lectures and supervisor of tutorials Systems analysis and Stochastic dynamics; flight control system design and analysis of its fault-tolerance capabilities.

10/2017 – 09/2018 (full time) 📍 Darmstadt, Germany
Visiting Researcher
Institute of Flight Systems and Automatic Control, Technical University Darmstadt

Concept development of the optimal landing control of a hybrid autonomous UAV; analysis of the fault-tolerance capabilities of a flight control system based on robust methods; research project ACoRUs (Active Fault-Tolerant Control for Redundant UAV's).

09/2016 – 08/2017 (part-time) 📍 Moscow, Russia
Engineer Guidance, Navigation and Control
Guidance, navigation and control department, Roscosmos

Development of modified flight control algorithms based on LQ trajectory-tracking approach; statistical analysis of disturbed motion; modeling and simulation in Matlab&Simulink.

08/2014 – 08/2016 (full time) 📍 Moscow, Russia
Data Engineer
Department of data processing and scripting, GfK-Rus

Programming of data structures; data post-processing and data analysis in SPSS Statistics; SQL queries for data extraction; technical support of projects.

Education

02/2022 – 03/2023 📍 Berlin, Germany
Berlin Higher Education Teaching Certificate
The Berlin Center for Higher Education (BZHL)

09/2020 – 11/2022 📍 Brunswick, Germany
German course
B2 and C1 levels, Volkshochschule Brunswick GmbH

09/2015 – 03/2020 📍 Moscow, Russia
Doctor of Philosophy
in Systems analysis and Control, Moscow Aviation Institute (National Research University)

09/2008 – 01/2014 📍 Moscow, Russia
Master of Science with honors
in Flight dynamics and Control, Moscow Aviation Institute (National Research University)

Skills & Competences

- MS Office
- Matlab&Simulink
- Delphi, Visual Basic
- Fortran, LabVIEW
- C, Python

Achievements & Certificates

2018 Best oral presentation „ICMCE'2018", Amsterdam
2017 DAAD award, fellowship at TU Darmstadt
2014 MSc degree with honors
2013 State scholarship for excellent academic performance

Languages

German	C1
English	B2
Russian	C2

Hobbys & Interests

Hiking, bike, football, building drones.
Autonomous systems, AI, renewable energy sources, multibody systems.

Others

Driving license, category B

Place, date   Signature