Personal Information

Name	<u>Stefan</u> Alexander Gärtner
Date of birth	1982-01-23
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Work experience

2013-04 – present	Mission Control & Data Systems Engineer
	German Aerospace Center DLR, Mission Technology Department, German Space Operations Center GSOC, Oberpfaffenhofen, Germany
	Responsibilities:
	 development and deployment of Mission Operations system components for satellite missions development, implementation and deployment of software supporting satellite operations administration, support and maintenance of Mission Operations systems and software acceptance, deployment, setup and test of Mission Operations systems participation in international standardization efforts in Mission Operations
2020-03 – present	Project Lead and Project Systems Engineer for V3C project
	 project management of the V3C generic mobile mission control center systems engineering for V3C: definition, design, development, implementation, deployment and validation
2015-01 – present	Software engineer for ProToS system
	 design, engineering, implementation and support of the ProToS mission preparation and automation environment for multiple missions for DLR and ESA
2013-04 – present	Active participation in the CCSDS SM&C Working Group
	 development and validation of CCSDS Spacecraft Monitor and Control standards, such as Mission Operations services, Message Abstraction Layer and technology bindings
2017-05 – 2019-12	Systems Engineer for HCC project
	 research project for renewal of multi-mission ground systems and interfaces

		 design, engineering and implementation of Mission Operations and data interfaces for HCC software development for HCC infrastructure
	2014-10 - 2018-03	Project Systems Engineer for PAZ radar satellite mission
		 definition and management of mission data system development activities mission OPS support mission data OPS activities for satellite LEOP
	2016-04 - 2016-07	Data Operations Engineer for BIROS earth observation mission
		 mission data OPS activities for satellite LEOP
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Α	cademic studies	
	cademic studies 008-10 – 2012-11	Research Fellow
		Research Fellow Ludwig-Maximilians-Universität Munich, Germany, Faculty of Physics
2		Ludwig-Maximilians-Universität Munich, Germany, Faculty of Physics Responsibilities: Setup and operation of a high-power laser system for
2	008-10 – 2012-11	Ludwig-Maximilians-Universität Munich, Germany, Faculty of Physics <i>Responsibilities:</i> Setup and operation of a high-power laser system for spectroscopic measurements of the negative ion of Positronium Study of physics at the Technical University of Darmstadt, Germany,
2	008-10 – 2012-11	Ludwig-Maximilians-Universität Munich, Germany, Faculty of Physics <i>Responsibilities:</i> Setup and operation of a high-power laser system for spectroscopic measurements of the negative ion of Positronium Study of physics at the Technical University of Darmstadt, Germany, and the University of Saskatchewan, Canada <i>Thesis:</i> "Gain calibration of the ALICE Time Projection Chamber" (Development of gain calibration algorithms for the time projection chamber of the ALICE experiment at CERN), prepared at the GSI

Relevant publications

- S. Gärtner, A. Ohndorf (2022) V3C: Kontrollzentrum auf einem Laptop. Deutscher Luft- und Raumfahrtkongress 2022 (DLRK 2022), 27.-29. Sep. 2022, Dresden, Deutschland. DOI 10.25967/570268
- S. Gärtner (2022) *V3C: Mobile and compact control centre for small satellites.* In: Military Scientific Research Annual Report 2021 Defence Research for the German Armed Forces. Pages 50-51
- S. Gärtner, N. Harder, J. Hartung, M. Hobsch, M. Weigel (2022) A Mobile and Compact Control Center for Quick Decentral Satellite Access. In: Space Operations: Beyond Boundaries to Human Endeavours, Springer. Hrg. C. Cruzen, M. Schmidhuber and Y. Lee. DOI 10.1007/978-3-030-94628-9_19
- S. Gärtner, M. Geyer, S. Hackel, A. Hauke, C. O'Meara, Y. Wasser (2018) *Rethinking Ground* Systems: Supporting New Mission Types through Modularity and Standardization. In: 15th International Conference on Space Operations, SpaceOps 2018. DOI: 10.2514/6.2018-2597
- S. Gärtner, J. Hartung, M. Wendler (2014) *Implementation of CCSDS Mission Operations Services* at the German Space Operations Center. In: 13th International Conference on Space Operations. American Institute of Aeronautics and Astronautics. SpaceOps 2014. DOI: 10.2514/6.2014-1869.