



R E S U M E / C V

# JENS FREYMUTH

M.Sc. Aerospace Engineering

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## PERSONAL INFORMATION

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Marital Status: married, 2 children  
Nationality: German  
Born: July 27, 1990, Potsdam, Germany

## PROFESSIONAL EXPERIENCE

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*Technische Universität Berlin, Berlin, Germany*  
*Chair of Space Technology, Research Assistant and PhD Student*

- **Project Lead RACCOON Project** (10/2022 - Present)
  - Leading the RACCOON research initiative for robust and **secure satellite communication** for critical infrastructures.
  - Enabling the development of the RACCOON **Intelligent Transceiver** and Secure Satellite Operation System (RACCOON OS).
- **Project Lead - SALSAT Mission** (08/2018 - 10/2024)
  - Successfully led the two-year development and launch of **SALSAT (Spectrum Analysis Satellite)** in 2020.
  - Mission operational until 2024 with an **open-access database**: [www.salsat.raumfahrttechnik.tu-berlin.de](http://www.salsat.raumfahrttechnik.tu-berlin.de).
- **Interim Project Lead - NanoFF Mission** (May 2023–Mar 2024)
  - Led the final integration, launch (via D-Orbit's ION), and commissioning of two 2U CubeSats.
  - Supervised interdisciplinary research team to enable **autonomous formation flight operations** in LEO
- **Systems Engineer - SALSAT Payload** (2017–2018)
  - Designed and tested the SDR-based payload SALSAT (Spectrum Analysis for LEO Satellite Allocations).
- **Lecturer - Master of Space Engineering Program** (2017–2020)
  - Teaching of two masters courses (6-9 ECTS) for international students: Space System Design Project (SSDP), Space Technology Project (STP).
- **Student Project Lead - IFSys (Intelligent Flying System)** (2012–2016)
- **Supervisor and Reviewer** for various theses, projects and educational activities

*Quantum Galactics GmbH, Berlin, Germany*  
*Co-Founder and CEO, since 02/2020*

- Building **nanosatellite solutions** with a focus on secure, reliable communications.
- Initiated the **1U4everything** satellite bus and **CyBER Unit** development: A innovative, compact Linux-based CubeSat platform for cybersecurity & resilience.
- Led the projects **CISPA sat** and **CyBEEsat** in strong partnership together with the TU Berlin and CISPA Helmholtz Center for Cybersecurity.

*Berlin Nanospacecraft Alliance e.V., Berlin, Germany*

- Promoted “Space Made in Berlin” and education of students in satellite projects
- Coordinated and supported international cooperation projects, e.g. RIDU-Sat 1
- Represented alliance interests in industry and academia.

*The Boeing Company, Cargo Systems Design Engineering, Everett, Washington, USA, 2016*

- Worked on **747-8F, 767-300F, and 777 Cargo Systems Design Engineering**
- Led redesign (PRR) of the ball-panel support structure for the Boeing 767-300F.
- Project Lead for **Boeing Defence & Space ONE Mars Rover Team**, coordinating a voluntary team of up to 35 engineers across divisions (BCA, BDS, BMT, EO&T) all over the continental US.

*Luftwaffe (German Air Force), Berlin, Germany, Military Service, 2009-2010*

- 01/2010: German Armed Forces Badge for Military Proficiency in Gold

## EDUCATION

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*Technische Universität Berlin (Germany)*

- **M.Sc. Aerospace Engineering (2013–2016)**  
Focus: Space Systems, Control Engineering, Avionics, Remote Sensing, Satellite Design, Grade: 1.2 (A)
- **B.Sc. Transportation Engineering (2010–2015)**  
Focus: Focus: Aerospace Engineering, Flight Systems, Satellite Technology

*Scholarships*

- Reinhardt Abraham Scholarship (2016), Lufthansa

## AFFILIATIONS & VOLUNTEERING

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*Technische Universität Berlin, Berlin*

- **DGLR (German Society for Aeronautics and Astronautics):** Member since 2011; Vice-Chair Berlin-Brandenburg (since 2015); Co-founder & First Chair of Young Senate (2019 - 2025); Senator since 2021.
- **Berlin Nanospacecraft Alliance (BNA):** Chairman (2022 - 2025)
- **AIAA:** Regular member (2016 -2020)

## SELECTED ACHIEVEMENTS

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- Led multiple successful **nanosatellite missions with interdisciplinary teams**
- Expertise in **space missions, RF communications and systems engineering.**
- Successfully acquired over **€5M of public research funding** for research projects
- Founder of a space startup (**Quantum Galactics GmbH**)
- **Over 10 years of active involvement** in professional societies (DGLR, AIAA).
- Recurring contributions and chair for various sessions at major space conferences, e.g. **IAC, AIAA, 4S, NSAT, DLRK.**
- Military and industry experience complementing academic leadership