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Skills

Thermodynamic Analysis
Programming (Matlab)
3D Modeling (Inventor)
Fluid Flow Simulation (Ansys Fluent)
Mechanical Assembly & Disassembly
Vacuum technology

Languages

German native
English B2

Tung Lam Dang

M.Sc. Aerospace Technologies

I am pursuing my Master's in Aerospace Technologies with a focus on rocket propulsion systems and space exploration concepts. I focus on fluid simulations, turbopump design, and propulsion system concepts, using mission-level requirements as the basis for preliminary engineering analyses and design studies.

I enjoy researching advanced aerospace technologies and exploring concepts for future propulsion and launcher architectures. My goal is to contribute to aerospace technologies that support future space missions and create practical benefits on Earth.

— Work experience

Satellite Test Equipment Support

September 2026 – Present

Working Student – Aerospace

OHB System AG, Bremen

- Developing a propulsion emulator for testing satellite flight hardware
- Supporting inventory management and organization of electrical test equipment for satellite assembly and testing

Mission Analysis Engineer

February 2026 – August

Student Rocket Team

2026

Hochschule Bremen – DLR STERN Program

- Conducting ballistic simulations and trajectory optimization
- Supporting mission analysis and flight performance evaluation for a student launch vehicle

Technical Business Development

January 2026 – August 2026

Working Student – Aerospace

NewTec GmbH

- Supporting technical business development in the aerospace sector by analyzing ESA project opportunities and building a network of space companies
- Assessing technical requirements and project feasibility to support potential collaborations
- Supporting internal decision-making for project acquisition

Independent Research Development

August 2025 – now

Systems and Propulsion Engineer

Self-Directed Project

- Developing a reusable spaceplane concept
- Developing flight simulation models to evaluate vehicle performance
- Designing the propulsion system architecture with focus on turbopumps

Research Intern

November 2024 – January

2025

Deutsches Zentrum für Luft- und Raumfahrt, Bremen

- Performed cryogenic leak testing for hydrogen aircraft components
- Developed simulation models for hydrogen fuel tank behavior
- Operated vacuum systems for leak detection

Laboratory Assistant

April 2024 – August 2025

Justus-Liebig-Universität, Gießen

- Supported the relocation and reassembly of an experimental test stand for ion source research
- Operated and maintained high-vacuum systems and components
- Performed testing and data analysis

- Helped develop a safety concept for high-voltage equipment

•— Education

Aerospace Technologies (M.Sc.)

April 2025 – now

Hochschule Bremen, Bremen

- Working on project-based launcher/spacecraft development
- Focus on mission analysis, spacecraft design, propulsion systems, and rocket trajectory simulation
- Developing simulation models for launch, orbital flight, aerobraking, and re-entry analysis using MATLAB/Simulink
- Current project focus: turbopump test stand design, including simulation, control concepts, and test infrastructure

Physics and Technology for Space Applications (B.Sc.)

October 2021 – March 2025

Justus-Liebig-Universität Gießen, Gießen

- Built a foundation in physics, mathematics and analytical problem solving
- Derived equations from fundamental principles in mechanics, dynamics, thermodynamics
- Built a theoretical foundation that was later applied in practical engineering work during the Aerospace Technologies master's program

Apprenticeship as a Commercial Vehicle Mechatronics Technician

August 2018 – July 2021

Scania Offenbach/Frankfurt, Offenbach

- Gained experience in maintenance, diagnostics and repair of commercial vehicles
- Gained experience in grinding, soldering, welding, drilling, and mechanical assembly
- Supported troubleshooting of wiring, brake systems, suspension systems, engines, clutches, and transmissions