Lisa Bachmann

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Personal data

Name:	Lisa Bachmann
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Date of birth:	21.02.2002 in Esslingen

Education

University of Stuttgart 10.2020 – 04.2025
B.Sc. Aerospace Engineering *(2.8)*

Experience

Industry internship at Bosch Thermotechniek B.V. in Deventer, NL 05.2024 – 10.2024
Combustion theory and modelling, machine learning, python and C++ programming, boiler design
Performing of computational fluid dynamics simulations with SU2
Validation of current hydrogen flame simulations with detailed chemistry simulations

Bachelor thesis at Alfred Kärcher SE & Co. KG in Winnenden, DE 10.2023 – 04.2024
Estimation of the jet profile of a fan jet nozzle using optical methods
Grade:*1.0*

Working student in central research and development at Alfred Kärcher SE & Co. KG in Winnenden, DE 04.2023 – 10.2023
Planning and execution of various experiments for nozzle design
Creating an evaluation routine using Octave
Result presentation of the experiments
Construction and modification of various test benches for nozzle measurement

Student assistant at Institute of Aerospace Thermodynamics at the University of Stuttgart, DE 09.2021 – 03.2023
Construction and modification of various test benches for droplet measurement
Planning and execution of measurement campaigns for the determination of different parameters during the drop impact
Evaluation and presentation of results of above experiments using MATLAB

Skills

Languages German (C2), English (C1), French (B1), Russian (A1)

Operating systems Windows, MacOS, Linux

Programming languages `Python`, LaTeX, MATLAB, `Octave`, `C/C++`

Simulation and visualization SU2, DLR TAU-Code, Pointwise, Tecplot360

CAD Siemens NX12

Hobbies

Beyond Leadership Program of the MTU Study Foundation (06.2022)

Underwater rugby Defending german women's champion