

ANASTASIA THIESSEN

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Germany, Bietigheim-Bissingen

EDUCATION & RESEARCH

Master of Science: medical engineering04.2022 - 07.2025

High Distinction, key subjects: medical device design & microsystems engineering

• **Masters thesis** (UNSW, Sydney)12.2024 - 05.2025

- Graduate School of Biomedical Engineering

- Concept and design of an automated release mechanism for a gene electrotransfer therapeutic delivery device
- BaDGE project group
- Supervisors: Prof. Nigel Lovell, Dr. Amr Al Abed, Dr. Thomas Guenther

• **Semester abroad** (KAIST, Daejeon)08.2023 - 12.2023

Courses in the department of Bio and Brain-engineering

• **Research thesis** (University of Stuttgart).....04.2023 - 08.2023

-Institute of Microsystems Technology (IFM, Institut für Mikrosystemtechnik)

- *Concept and design of implantable holographic sensors for continuous measurements of biomolecules*
- Co author on Published related paper: "Multispectral Readout of Bragg Diffraction in Hydrogel Sensors Using a Compact Photodiode Platform"

Bachelor of Science: medical engineering10.2018 - 12.2021

University of Stuttgart and Eberhard Karls University of Tuebingen

Distinction

• **Bachelors thesis** (BEC GmbH).....12.2024 - 05.2025

-Industry-partnered thesis:

Adaptation of a robotic assistance system for needle placement to the application with CT:
concept and proof of concept

WORK EXPERIENCE

Pulspartner GmbH - Internship as a clinical specialist and sales representative04.2024 - 10.2024

germany-wide market introduction: MIVI Q aspiration catheter

clinical specialist, experience in hospital environment, product instructions and demonstrations

Kardion GmbH - Working student in R&D and QM01.2023 - 07.2023

cardiology rapid prototyping: PCB Design, Prototyping with SLA & FDM Printing, development + manufacturing of test stands support with risk management and FMEA

BEC GmbH - Working student in R&D05.2020 - 12.2022

project on a robotic assistance system for biopsies and ablations (guidoo)

prototyping, manufacturing

methodical evaluation of solution concepts, technical drawings, PCB design, prototyping with SLA & FDM printing

KEY & TECHNICAL SKILLS

Technical skills

- CAD & Mechanical Design: SolidWorks, PTC Creo
- PCB Design & Electronics: KiCAD, Altium Designer; schematic design, PCB layout
- 3D Prototyping: SLA and FDM printing (Formlabs, Prusa)
- Programming & Data Analysis: Python (pandas, matplotlib, NumPy); basic automation and scripting
- Simulation & Modelling: FEM and mechanical stress analysis, COMSOL Multiphysics
- Documentation & Reporting: MS Office, LaTeX
- Project Tools & Methods: certified in Design Thinking

Leadership skills and teamwork

- Peter Farell Cup UNSW.....06.2025 – 07.2024
- NEW Wave program UNSW.....04.2025 – 05.2024
- FEMTEC Career Building Program.....05.2020 – 05.2024

leadership development, career advancement strategies and industry research project

innovation lab with industry partner:

cooperation with Daimler Truck on a strategic analysis of decentralized charging infrastructure for e-trucks

LANGUAGES

german: native (C2)

english: fluent (C1, TOEFL certificate)

french: intermediate (B2)

russian: basic (A2)

SOCIAL COMMITMENT

Volunteering

- AWO refugee aid: german language lessons (Germany, Karlsruhe)05.2024 – 10.2024
- english teaching (Cambodia, Siem Reap and Vietnam, Hanoi)01.2023 – 03.2023
- volunteering at childrens youth hospital (Germany, Stuttgart)02.2022 – 05.2023