TIMMO CASPAR ACHSEL

I melt metals and make apps.

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CURRICULUM VITAE · UPDATED NOVEMBER 2026

EXPERIENCE

2026 – NOW

PhD Researcher

KTH ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM

- Additive manufacturing & AI in the Department of Production Engineering
- Making additive manufacturing more reliable and industrializable

2024 – 2025

Project Manager & Topic Owner

OPENRESEARCH GMBH

- Led a hybrid team of 5
- Owned a company-wide topic that set standards for the development lifecycle
- Roadmap owner for a multi-tenant B2B SaaS product, including quality and deployment

2022 – 2024

Project Manager

MAM HEALTH & INNOVATION GMBH

- Ran development of patent-pending polymer products
- Launched a patented breastfeeding product
- Led a team of 6 evaluating technical information for patent applications

2021 – 2022

Electric Product Development Engineer

MAM HEALTH & INNOVATION GMBH

- Rapid prototyping, functional prototypes and specialised testing rigs
- Patent evaluation and support with patent filings

2020 – 2021

Trainee R&D Engineer

MAM HEALTH & INNOVATION GMBH

EDUCATION

2026 – NOW

PhD, Additive Manufacturing & AI

KTH ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM

2024 – 2025

BSc Computer Science and Digital Communications

UNIVERSITY OF APPLIED SCIENCES VIENNA

2021 – 2023

MSc High Tech Manufacturing

UNIVERSITY OF APPLIED SCIENCES VIENNA

Thesis: Optical sensor-based approach for real-time process monitoring and defect-detection in PBF-LB/P

2018 – 2021

BSc High Tech Manufacturing

UNIVERSITY OF APPLIED SCIENCES VIENNA

Thesis: Development of a Testing Rig for Impact Reduction by MAM Products in Toddlers

AWARDS

2024 — *Best Master Thesis, 2nd place*
KONFERENZ DER MECHATRONIK PLATTFORM

RESEARCH

2022 – 2023 — *Master thesis*
ADDITIVE MANUFACTURING SCIENCE AND EDUCATION LAB (AMSEL)
Studied heat resistance and failure of photopolymers, then used an additively manufactured housing in a heated build chamber to monitor PBF-LB/P defects with machine learning.

2020 — *Bachelor thesis*
MAM HEALTH & INNOVATION GMBH
Built a testing rig for impact analysis of falls in toddlers with and without soothers, comparing silicone products on impact reduction in the head and face region.

PUBLICATIONS

2026 — *Your measurements could lie to you by a factor of 3: Multi-objective parameter optimization in LPBF of IN939*
Achsel, T. C., Dileep, D. V., Tomkowski, R., Rashid, A., & Dadbakhsh, S.
Conference paper · Poster · euspen 2026, 26th International Conference & Exhibition, Kraków · kth.diva-portal.org

2024 — *Optical sensor-based approach for real-time process monitoring and defect-detection in PBF-LB/P*
Achsel, T. C.
Conference paper · Konferenz der Mechatronik Plattform, Wiener Neustadt · mechatronik-plattform.at (PDF)
Best Master Thesis, 2nd place

2023 — *Real-Time Optical Detection of Artificial Coating Defects in PBF-LB/P Using a Low-Cost Camera Solution and Convolutional Neural Networks*
Klamert, V., **Achsel, T. C.**, Toker, E., Bublin, M., & Otto, A.
Journal article · Applied Sciences 13(20), 11273 · doi:10.3390/app132011273

SKILLS

ENGINEERING	SolidWorks · Fusion 360 · MATLAB · R
SOFTWARE	Python (TensorFlow) · Java · JavaScript · TypeScript · Svelte · SwiftUI · Go
LANGUAGES	German (native) · English (fluent) · French (A2) · Swedish (B1)