

Jonas Strabel

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German (native) · English C1–C2 · Bisaya A2

*3+ years of industry software engineering, now aimed at robots that fold laundry –
bringing computer science and philosophy together at TUM RCI this fall.*

Education

Technical University of Munich (TUM) – M.Sc. Robotics, Cognition and Intelligence Oct 2026 –

First semester (planned): Robotics, Machine Learning, Fundamentals of AI, Chinese

Philosophisch-Theologische Hochschule Sankt Georgen, Frankfurt Oct 2025 – present

Orientation year in philosophy · current average 1.06 (41.5 ECTS)

- Deliberate year in philosophy before the RCI master's: the questions that motivate the engineering
- Relevant coursework: Introduction to Formal Logic, AI as a Topic in the Philosophy of Mind, Philosophy of Language, History of Modern Philosophy, Philosophical Ethics, Philosophical Anthropology, ...

DHBW Mannheim – B.Sc. Computer Science (Applied Informatics) Oct 2022 – Sep 2025

210 ECTS · final grade 1.6 · weighted grade per TUM Curricularanalyse: 1.3 · industry partner: Roche

- Strong results in theoretical CS (Logic 1.4, Formal Language 1.1, Algorithms and Complexity 1.6)
- Systems and engineering: Computer Architecture I 1.2, Databases 1.2, Software Engineering I 1.3
- Student research project on sustainable driving behavior through gamification, 1.0

Theresianum Mainz – Abitur (focus: Physics, English, Geography) 2014 – 2022

Technical Skills

Python, JavaScript, C++, C#, Swift, SQL/dbt, Linux, Git, MLX, data analytics, software engineering

Selected Projects

Robots101 (road to laundry robots, project one) 2026

github.com/strjonas/Robots101

- AI-assisted build, directed and reviewed: ROS 2 Jazzy + Gazebo Harmonic on Apple Silicon (Pixi/RoboStack), TurtleBot3 with camera/lidar, Nav2, a command arbiter, and an LLM planner driving a skill executor
- Planner selects high-level actions; controllers and safety nodes keep low-level authority. Simulation only (for now).

AccountyCat – open-source macOS focus companion 2026

Swift · llama.cpp · multimodal inference · MIT · accountycat.com · 32 GitHub stars · public v1.0 release May 2026

- On-device multimodal agent: reads active app/window context via native macOS APIs, escalates to a vision-capable model (Qwen via llama.cpp, or OpenRouter) only when text is ambiguous; learns from corrections

Natural Language Acquisition POC – self-model research 2026

github.com/strjonas/natural-language-acquisition-poc

- Designed and directed research (implementation AI-assisted) on whether an embodied learner can build a causally useful self-model and, from there, acquire real language: preregistered, five-seed replication with reported SDs, named controls (scrambled listener, zero-belief lesion, random-model, rate-matched random), 378 tests, decision log
- Work in progress: an online self-calibrating body-model cuts state-tracking error ~70% and lifts correct need-reporting to 95% over fixed/one-off baselines, passing all seven gates; extending language acquisition is next

Industry Experience

MedifoxDan GmbH – Werkstudent, Data Analytics / Data Science May 2026 – present

- dbt/SQL modeling & analysis of operational / financial data; automation through Copilot skill pipelines
- Running a synthetic-customer-survey POC (LLM vs. real B2B healthcare data); naive baselines currently win

Roche Diagnostics, Mannheim and Malaysia – 3-year dual-study cooperation 2022 – 2025

6 rotations across the program; two selected below

- Digital Engineering: built a C# Enterprise Architect extension generating required C++ boilerplate from a handful of inputs; concluded in the accompanying thesis that round-trip engineering was not feasible
- Software Implementation: implemented an HL7 FHIR interface in Python using FastAPI and RabbitMQ, mediating between an external protocol and an internal platform

Papers

AI as an Epistemic Authority? (Goldman's Criteria, LLMs) grade 1.0, 2026

Argues LLMs can satisfy Goldman's conditions for epistemic authority; non-experts can treat them as such in some domains.

Can LLMs Know What They Know? (Sosa's Aptness, LLMs) not graded yet, 2026

Applies Sosa's virtue epistemology to argue LLMs can have animal knowledge, and in some cases reflective knowledge.