Vincent C. Mader

Software developer and physicist
(M.Sc.), based in Ulm, Germany

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EXPERIENCE

SINCE 2025	Radar SW engineer HENSOLDT, Ulm
2024-2025	Radar dev. & test engineer FERCHAU GmbH, at HENSOLDT, Ulm
2022-2023	Project internship: Monte Carlo integration of the Smoluchowski coagulation equation Institute for Theoretical Astrophysics, Heidelberg
2022-2024	Part-time staff, gastronomy gastroevents GmbH & Co. KG, Ulm
2021-2023	Academic tutor, physics lab course Heidelberg University, for students of physics and molecular biotechnology
2019	Project internship: simulation of gas accretion onto eccentric planets Max Planck Institute for Astronomy, Heidelberg
SINCE 2015	Physics and mathematics tutor for high school students
SINCE 2013	Independent software development iOS apps in the App Store, web platforms, simulations. Partly with Leonard Wagner and Martin Brosig (kiloWatty).

EDUCATION

2020-2024	M.Sc. Physics, grade 1.6 Heidelberg University. Thesis: Monte Carlo Coagulation (PDF)
2016-2020	B.Sc. Physics, grade 2.1 Heidelberg University. Thesis: Gas accretion onto eccentric planets (PDF)
2008-2016	Abitur, bilingual program, grade 1.5 Hans-und-Sophie-Scholl-Gymnasium, Ulm

VOLUNTEERING

SINCE 2022	President and chair of the association, DPSG Ulm-Söflingen
SINCE 2019	Scout group leader, DPSG Ulm-Söflingen
SINCE 2024	Spokesperson and external representative, Ulmer Pfadfinderring
SINCE 2024	Election committee member, DPSG Bezirk Ostalb
2022-2023	Cash auditor, DPSG Bezirk Ostalb
2022-2023	Scout group leader, DPSG Heidelberg-Kirchheim
2015-2016	Children's supervisor, Ruhetal Ulm

SKILLS

Programming languages
Rust, Python, C, C++, TypeScript, JavaScript, Swift, Dart, Shell, SQL, HTML, CSS, LaTeX

Tools and platforms
Linux, Git, Docker, PostgreSQL, SQLite, WebAssembly, Atlassian suite, SSH, Vim, Emacs

Science
Physics, Mathematics, Computational physics, Computational astrophysics, Numerical simulation, Data analysis and visualization

Software development
Web backends and frontends, iOS and mobile apps, Linux servers, CI and deployment

Languages
German (native), English (full working proficiency), Italian (A2), French (elementary), Latin (Latinum)

Soft skills
Teamwork, Coordination and leadership, Communication, Tutoring, Working with children