Vincent C. Mader

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

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EXPERIENCE

SINCE 2024	**Radar software development and test engineer** HENSOLDT, via Ferchau GmbH, Ulm
SINCE 2013	**Independent software development** iOS apps in the App Store, web platforms, simulations. Partly with Leonard Wagner and Martin Brosig (kiloWatty).
2022 TO 2023	**Project internship: Monte Carlo integration of the Smoluchowski coagulation equation** Institute for Theoretical Astrophysics, Heidelberg
2021 TO 2023	**Academic tutor, physics lab course** Heidelberg University, for students of physics and molecular biotechnology
2022 TO 2024	**Part-time staff, gastronomy** gastroevents GmbH & Co. KG, Ulm
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**

EDUCATION

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

VOLUNTEERING

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

SKILLS

Science
Physics, mathematics, computational physics and astrophysics, numerical simulation, data analysis and visualization

Software
Backend and frontend web development, iOS apps, WebAssembly, Linux servers, Docker, CI and deployment

Languages
Rust, Python, C and C++, TypeScript and JavaScript, Swift, Dart, shell, SQL, LaTeX

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