



Frank Nelles

Education

Research Associate/Doctoral Student,
TU Darmstadt, 2024–ETA 2028

M.Sc. Informatik, TU Darmstadt
2021–2024

B.Sc. Informatik, TU Darmstadt
2017–2021

Abitur, Gymnasium am Mosbacher
Berg, 2008–2016

Skills

Natural Languages: German (mother
tongue), English (fluent)

Computer Languages: Kotlin, C#.NET,
Java, PHP, TypeScript, SQL, and more

Web Development: PHP, Angular,
Javalin, C#/ASP.NET, jQuery

Desktop/Mobile Development:
Windows w/ C#/ASP.NET,
Android Native

Development: Unity, Arduino, NoSQL

Development Tools: Git, GitHub,
GitLab (with CI/CD), Java/Kotlin
Library Development (Gradle)

3D/CAD: SLA/FDM Printing,
Fusion360, OpenSCAD, Cura

Other: LaTeX, SharePoint, Server
Administration, ETL Workflows

Extra-Curricular

Student Representative Council
(Computer Science Department)
at TU Darmstadt
Oct 2022–ongoing

Main Organiser of Orientation Week
Student Representative Council
for Summer and Winter Semester
2023 at TU Darmstadt CS Dept.

Work Experience and Internships

- May '20–Sep '23 Student Assistant Hochschuldidaktische Arbeitsstelle, TU Darmstadt
Software Engineer for electronic examination systems for universi-
ties, conducting user studies, co-advisor for students writing their
bachelor's or master's thesis
- Nov '17–Oct '19 Student Assistant Dentsu Aegis Network Germany GmbH
Data Scientist and Software Engineer for data handling and cus-
tomer information within advertisement industry
- Oct '18–Mar '19 Mentor for First Semester Students TU Darmstadt
Mentor for 12 first semester students as part of the mentoring
programme at my university's Department of Computer Science
- Feb–Jun '17 Intern Dentsu Aegis Network Germany GmbH
Data Scientist and Software Engineer for data handling and cus-
tomer information within advertisement industry
- Jan–Feb '14 Intern InfraServ GmbH & Co. Wiesbaden KG
Pupil internship in IT/software engineering

Research and Projects

- May '23–ongoing Paper on XR Transitions Telecooperation Lab, TU Darmstadt
Second author; paper to be published – contact to first author:
willich@tk.tu-darmstadt.de
- Nov '23–May '24 Master Thesis Computer Science Department, TU Darmstadt
Title: *A Qualitative Investigation of User Transitions along the Mil-
gram Continuum*
- Apr–Sep '22 Practical Lab TU Darmstadt
Lab, with Demo Paper (second author) on *Mensch und Computer*
conference 2022; Title: *Demonstrating MagneTisch: Tangibles in*
Motion on an Interactive Surface
<https://dl.acm.org/doi/10.1145/3543758.3547520>
- Sep '20–Feb '21 Bachelor Thesis Hochschuldidaktische Arbeitsstelle, TU Darmstadt
Title: *Omega - A service for the exam review by examinees, statisti-
cal evaluation and online and long-term archiving of digital exams*
- Oct '19–Mar '20 Practical Lab TU Darmstadt
Software Project; Developing a correction and review software for
an in-house electronic examination toolchain
- Apr–Sep '19 Practical Lab TU Darmstadt
Software Project; Expanding a collection of visualisations and ani-
mations of data structures and algorithms in educational software

Electives and other experiences

- Elective field Economic and Legal Sciences TU Darmstadt
Courses on Patents, Copyright, Law of Electronic Media, and Com-
pany Law, Economics and Business studies
- Further research Research on Mental Models Master Thesis, TU Darmstadt
Study of mental models from cognitive sciences as part of my Mas-
ter Thesis
- Conferences Participation
Student Volunteer at Mensch und Computer conference 2022,
Reviewer for ACM CHI'24, ACM DIS'24