

Dr. NITISH PATKAR

RESEARCHER AND REQUIREMENTS ENGINEER

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PROFILE

I am an active researcher with an extensive background in software and requirements engineering, digital transformation, and UX design. I enjoy creating user-friendly and sustainable digital products. My experience includes managing industry innovation projects, leading teams with agile methods, and teaching at the university level. Having worked in three countries and spoken four languages, I thrive in multicultural environments and love to travel for work. I'm passionate about ideation, vision-setting, and roadmapping, especially when starting new projects. My research interests include developing innovative feedback mechanisms for continuous product and organisational improvements, implementing data-driven processes, improving stakeholder engagement in the development process, and the UX of AI-based systems. I seek opportunities to work on projects that focus on the human side of technology, collaborating with diverse teams to bring new ideas to life.

EXPERIENCE

**University of Applied Sciences and Arts
Northwestern Switzerland (FHNW) -
Brugg, CH**
03/2022 - Current

RESEARCH ASSOCIATE

- Led multiple industry collaborations from problem identification to solution validation
- Agile coach for two teams with industry projects, focus on Scrum
- Co-instructor for Requirements Engineering (BSc) and contributor to CAS Digitalisation & Sustainability programs

University of Bern - Bern, CH
02/2018 - 02/2022

RESEARCH ASSISTANT

- Mentored 50-60 students annually through software project phases (requirements, prototyping, implementation, testing)
- Instructor for Software Engineering Seminar (BSc/MSc), explored research trends and prototypical solution development

ActiDo GmbH - Paderborn, DE
01/2017 - 01/2018

WEB DEVELOPER

- Developed responsive web application with React based on provided designs
- Utilised HTML, CSS, and React for front-end development

**University of Paderborn -
Paderborn, DE**
01/2016 - 01/2018

RESEARCH ASSISTANT

- Collaborated with clients from Volksbank to gather requirements for sports application
- Developed a single-page application with Angular and Django Rest Framework

Infosys Ltd. Pune, IN
01/2012 - 01/2014

SYSTEMS ENGINEER

- Contributed to product lifecycle management (PLM) platforms including Windchill
- Developed a web application for Cox Communications

EDUCATION

University of Bern - Bern (CH)
01/2018 - 01/2022

Ph.D. Requirements and Software engineering

- Proposed an approach to engage multiple stakeholders in a tool-assisted agile development process

University of Paderborn - Paderborn (DE)
01/2014 - 01/2018

M.Sc. Requirements engineering

- Proposed a tool-assisted process for stakeholders to straightaways specify goals within an Industry 4.0 context

University of Mumbai - (IN)
01/2009 - 01/2012

B.E. Information systems

- Developed a protocol for multi protocol label switching

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SKILLS AND EXPERTISE

- Requirements engineering, Innovation management, Software Engineering
- Research, Scientific writing
- UX design, Usability
- Digital transformation, Digital sustainability
- Agile, Scrum, XP, Kanban, RUP
- Web development, DevOps, JavaScript, Typescript, Python, Java, Smalltalk, Angular, React, Django

LANGUAGES

- German (B1)
- English (C1)
- Marathi (C2)
- Hindi (C2)

ENGAGEMENTS

- Member of the special interest group on digital sustainability at the International Requirements Engineering Board (IREB)
- Program committee member of several international conferences like REFSQ and RE, and ICT4S
- Reviewer of several international scientific journals like SoSci, RE, IST, and EMSE
- Local organization and web chair of the XP 2025 conference