

## Kontakt

mail@martinspacheco.de

[www.linkedin.com/in/  
martinspacheco \(LinkedIn\)](https://www.linkedin.com/in/martinspacheco)

## Top-Kenntnisse

UX Research

Product Development

Easily Adaptable

## Languages

German (Native or Bilingual)

Portuguese (Native or Bilingual)

English (Full Professional)

Spanish (Elementary)

French (Elementary)

## Publications

A hackathon approach for design education to enable quantitative analysis of effort spent, product concept quality, and learning effect in technical higher education

A Role-Based Prototyping Approach for Human-Centered Design in Industry

A Behavior-Centric Concept for Engineering Education in New Product Development

FOSTERING PROTOTYPING MINDSETS IN NOVICE DESIGNERS WITH THE PROTOTYPING PLANNER

A FUZZY FRONT-END PRODUCT DEVELOPMENT FRAMEWORK FOR START-UPS

# Miguel Martins Pacheco

Dr.-Ing. | AI UX & Product Innovation Expert | Human-AI Collaboration | Explainable & Trustworthy AI  
München, Bayern, Deutschland

## Zusammenfassung

I design how people collaborate with intelligent systems.

As an AI UX and Product Innovation Expert, I bridge human-centered research and product development - turning explainability, interaction design, and user insights into tangible results for Siemens' AI platforms and applications.

My work combines user research, prototyping, and IP creation to make AI systems more transparent, intuitive, and trustworthy.

## Highlights:

- Filed multiple invention disclosures advancing Siemens AI UX standards
- €1.3M public mobility research project showcased at IAA Mobility 2023
- 100+ professionals trained in design thinking and prototyping workshops

I'm passionate about translating complex research into scalable, human-centered AI products - and driving innovation through collaboration between research and business units.

Let's connect if you're building the next generation of human-centered AI.

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## Berufserfahrung

Siemens

Senior Researcher, UX for AI Systems

November 2024 - Present (1 Jahr 4 Monate)

Greater Munich Metropolitan Area

Advancing UX for intelligent AI systems through human-AI collaboration, explainability, and novel interaction paradigms. My work bridges applied

research with enterprise product development to make AI systems more intuitive, transparent, and trustworthy

- Developed new interaction paradigms and multi-agent orchestration concepts, resulting in multiple invention disclosures
- Conducted user research to inform internal AI UX and design requirements
- Created prototypes and design guidelines to translate research into actionable insights for product teams
- Shared findings across Siemens design communities, shaping AI UX and explainability standards
- Supervised 2 master's theses and co-authored 2 upcoming papers on AI trust and explainability

**Technical University of Munich**

**Researcher**

Juli 2019 - Oktober 2024 (5 Jahre 4 Monate)

München und Umgebung, Deutschland

Led interdisciplinary research in product development, human-centered design, and industry collaboration

- Managed a €1.3M public mobility project, developing VR demonstrators showcased at IAA Mobility 2023
- Led design sprints with BMW and academic teams, producing validated product concepts
- Supervised ~30 theses and published 8 papers shaping UX education and product development methodology

**mintech**

**Co-Project Lead Workshop Development**

Februar 2022 - September 2024 (2 Jahre 8 Monate)

Greater Munich Metropolitan Area

Delivered and co-led design thinking and prototyping workshops for industrial clients (BMW, Siemens), training ~100 participants

- Coached cross-functional teams in ideation, prototyping, and storytelling
- Supported business development, expanding the client portfolio by 50%
- Recognized for creativity, initiative, and high-quality delivery under complex requirements

**PTC**

**Internship, IT-Consulting**

Oktober 2017 - Januar 2018 (4 Monate)

Wolfsburg, Niedersachsen, Deutschland

Contributed to a consulting project for Volkswagen AG focused on digital transformation in product lifecycle management

- Supported configuration, variant, and change management processes in an enterprise context
- Created technical specifications and materials for client workshops and steering committees
- Strengthened understanding of IoT, AI, and AR technologies linking physical and digital product ecosystems
- Recognized for analytical precision and problem-solving under tight deadlines

### Bosch Service Solutions

5 Monate

#### Working Student, International Project Management

Juni 2016 - Juli 2016 (2 Monate)

Frankfurt am Main und Umgebung, Deutschland

#### Internship, International Project Management

März 2016 - Mai 2016 (3 Monate)

Frankfurt am Main und Umgebung, Deutschland

Conducted process analyses and reporting to improve efficiency and ensure quality assurance

- Developed sales campaigns for the French market and service expansion concepts for the US market
- Supported project controlling and quality gates, ensuring progress tracking across IT and operations
- Recognized for a structured, proactive, and solution-oriented approach in a cross-functional, international environment

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## Ausbildung

### Technical University of Munich

Doctor's Degree (PhD), Mechanical Engineering, Product

Development · (September 2019 - Dezember 2024)

### Imperial College London

Visiting Researcher, Design Engineering · (November 2022 - Mai 2023)

### Technical University Munich

Master of Science (MSc), Mechanical Engineering and

Management · (Oktober 2016 - Mai 2019)

Instituto Superior Técnico

Semester Abroad, Mechanical Engineering · (Februar 2018 - Juni 2018)

Technische Universität Graz

Bachelor of Science (BSc), Mechanical Engineering & Business

Economics · (Oktober 2011 - Oktober 2015)