



Nuno Miguel MARTINS PACHECO

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PROFILE

I am currently completing my PhD in Product Development. My research focused on investigating hackathons for developing innovative and economically viable mechatronic products. With a background in engineering and solid expertise in design thinking, user-centered strategy, and agile project management, I am eager to tackle industry challenges. I excel in leading cross-functional teams, managing stakeholders, and driving projects from ideation to prototyping, ensuring timely delivery and high-quality results. I aim to leverage my expertise to deliver innovative products.

EXPERTISE

- Design Thinking, Prototyping & Testing
- Agile Project Management
- Cross-Functional Collaboration
- Concept Development
- Qualitative & Quantitative Research

LANGUAGE

- German (native)
- English (business fluent)
- Portuguese (native)
- Spanish (basics)
- Italian (basics)

WORK EXPERIENCE

07/2019 - Current

RESEARCH ASSOCIATE

Technical University of Munich (TUM)

📍 Munich, Germany

Industry Projects:

- **THINK. MAKE. START. By BMW Group** (07/2019 - Current)
 - Role: Co-Organizer & Coach
 - Directed one-week innovation sprints, guiding cross-functional teams to identify and solve challenges through user needs analysis, prototyping, and effective storytelling
 - Utilized agile methods & design thinking for timely delivery and high-quality solutions
- **VR Sports Moving Space** (09/2019 - 05/2020)
 - Role: Project Lead
 - Led the development of a VR sports concept for autonomous vehicle commuters
 - Managed and coordinated the design team and project partners (BMW, Makerspace)

Research Projects:

- **MCube STEAM funded by BMBF** (10/2021 - 07/2024)
 - Role: Co-Project Lead for overall project & Lead Concept Developer
 - Structured and monitored project progress, ensuring adherence to schedules
 - Developed an integrated flexible bus concept for passenger and parcel transport presented at IAA Mobility 2023, managing high-profile collaborations with BMW, MAN, SWM, and Stanglmeier

Teaching Projects:

- **THINK. MAKE. START. By TUM and UnternehmerTUM** (07/2019 - 03/2024)
 - Role: Project Lead & Coach
 - Led a biannual product development course and guiding interdisciplinary teams from user needs identification to viable mechatronic products (MVP)
 - Successfully managed 10 sprints, demonstrating strong coaching, mentoring, and leadership abilities
- **Tangibility By TUM and Imperial College London** (11/2022 - 07/2023)
 - Role: Project Lead & Coach
 - Led remote teams from user needs to developing innovative mechatronic products
 - Completed 3 sprints, demonstrating adaptability and remote team management

02/2022 - Current

FREELANCER

Mintech Engineering GmbH

📍 Munich, Germany

- Role: Workshop Instructor & Concept Developer
- Developed novel workshop concepts for design thinking and prototyping
- Led and coached workshops with cross-functional teams, focusing on ideation, user need identification, prototyping, and storytelling (e.g., BMW, Siemens, Makerspace)

SKILLS

- Microsoft Office (very good)
- Miro (very good)
- Adobe Creative Cloud (good)
- Figma / Adobe XD (basic)
- R (good)
- Python (basic)
- Confluence (very good)
- Jira (basic)
- Trello (very good)
- Notion (good)

MEMBERSHIPS

- Design Society (since 2019)
- Veband Deutscher Ingenieure (since 2023)
- Deutscher Alpen Verein (since 2024)

INTERESTS

- Road Biking (e.g., Munich to Bozen)
- Hiking (Alps, Norway, Portugal)
- Vinyl (Rock, Ambient, Electronic)
- Analog Photography (Urban & Nature)
- Cooking (Italian, Portuguese)
- Hackathon Participation
 - Best Concept Vitra Work 2019
 - Best Prototype TMS #6, 2017
 - Participation hack@night 2017
 - Participation expeditiOn 2017

REFERENCE

Dr. Markus Mörtl

Laboratory Mangement || TU Munich

✉ markus.moertl@tum.de

Dr. Maximilian Bandle

CEO & Founder || Mintech GmbH

✉ maximilian.bandle@mintech.de

Dr. Annette Böhmer

Product Owner || BMW Group

✉ annette.boehmer@bmw.de

EDUCATION

07/2019 - Current

PhD. Doctor's Degree, Product Development

Technical University of Munich (TUM)

📍 Munich, Germany

- Thesis: A Hackathon Approach for Design Education to Enable Quantitative Analysis of Effort Spent, Product Concept Quality, and Learning Effect in Technical Higher Education
- Supervisor: Prof. Dr. Markus Zimmermann
- Highlights:
 - Summer School: Engineering Design Research (Technical University of Denmark)
 - Publications: 8 conference papers (1 Best Paper Award), 1 journal publication
 - +500 students mentored in seminars, theses, and interdisciplinary projects
 - Led 20+ hackathons from idea to MVP for mechatronic products
 - Worked in international teams to develop MVPs (Imperial, Stanford, DTU)
 - Secured €500k+ in funding for research projects

11/2022 - 05/2023

VISITING RESEARCHER, DESIGN ENGINEERING

Imperial College London (ICL)

📍 London, England

- Research Stays: 11/2022 - 12/2022 & 05/2023
- Participated in a research exchange focusing on design methods and urban mobility, facilitating collaborative opportunities in academia and applied research
- Collaborated with four Innovation, Design, and Engineering (IDE) master's students on the MiMo Micro Mobility Project, developing a mobile parcel locker service robot
- Provided tutoring support for IDE final projects, ensuring successful project completions

10/2016 - 05/2019

M.Sc. MECHANICAL ENGINEERING & MANAGEMENT

Technical University of Munich (TUM)

📍 Munich, Germany

- Specialization: Product Development, Production, and Innovation
- Thesis: Prototyping Recommendation Framework; A Collection of Prototyping Methods for Early-Stage Product Development (abroad at Technical University of Denmark - 05/2019)
- Erasmus: Instituto Superior Técnico, Lisbon, Portugal (02/2018 - 06/2018)

10/2011 - 10/2015

B.Sc. MECHANICAL ENGINEERING AND ECONOMICS

Technical University of Graz (TUG)

📍 Graz, Austria

- Focus: Engineering sciences with a foundation in natural sciences and business economics
- Thesis: Business Creation, Factors Influencing This Decision, and Importance of Entrepreneurial Universities

02/2002 - 06/2011

GENERAL HIGHER EDUCATION QUALIFICATION

Taunusgymnasium Königstein

📍 Königstein, Germany