



# Nuno Miguel MARTINS PACHECO

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## PROFILE

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I am a creative and determined project manager with over 6 years of experience in product development. Specialising in design thinking and agile methods, I have proven that I can translate customer needs into successful product strategies. I have a background in mechanical engineering and am currently completing my PhD in product development at TUM. During my time at university, I have worked in leading positions with industrial partners such as BMW, MAN and Siemens as well as academic partners such as Imperial College London. My passion is to have a positive impact on organisations and people through innovative projects and effective team leadership. I enjoy working in teams, taking responsibility and delivering projects that create real value for customers and organisations.

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## WORK EXPERIENCE

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07/2019 - Current

### RESEARCH ASSOCIATE

Technical University of Munich (TUM), Munich, Germany

10/2021 - Current

### MCube STEAM in collaboration with BMW, MAN, SWM and Stanglmeier

- *Co-Project Lead:* Responsible for project progress monitoring, implemented regular progress reports and workshops that improved communication and collaboration with project partners
- *Leading the concept development:* Integrated bus system for passenger and parcel transport in public transport, which increased bus utilisation by ~20% and saved ~180 kg CO2 per bus line each day
- *Leading the realisation of the VR demonstrator:* Presented at the IAA Mobility 2023, which was tested by over 120 exhibition visitors and received ~90% positive feedback (technology acceptance survey)

07/2019 - Current

### THINK. MAKE. START. in collaboration with BMW

- *Co-organiser:* Successful implementation of 6x one-week sprints to develop customer-centric, innovative products, with some projects receiving €50k budget through management support for further development as part of pre-development
- *Coaching cross-functional teams:* Teaching skills in prototyping, storytelling and design thinking, which improved employees' skills in cross-functional collaboration, customer understanding and innovative thinking

07/2019 - 03/2024

### THINK. MAKE. START. in collaboration with UnternehmerTUM, Makerspace and Zeidler Research Association

- *Project Lead:* Successful organisation and implementation of 8x two-week sprints as a university seminar, which led to the creation of an average of one startup per sprint (e.g., Angsa Robotics) and received an average course rating of 1.1 from students (~400 students)
- *Coaching interdisciplinary teams:* Teaching skills in prototyping, storytelling, design thinking, and product strategy, enabling students to develop user-centred, economically viable products and enhance their innovative thinking abilities

02/2022 - Current

### FREELANCER

Mintech Engineering GmbH, Garching, Germany

- *Concept Developer & Workshop Instructor:* Development and successful realisation of 4 newly designed, technology-focused design thinking and prototyping workshops for customers (e.g. BMW, Siemens), whose success was confirmed by positive customer feedback and follow-up projects
- *Coaching cross-functional teams:* Teaching skills in brainstorming, prototyping, storytelling, and design thinking, which significantly improved the problem-solving and innovation abilities of the participants

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## EDUCATION

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09/2019 - Current

### PhD. DOCTOR'S DEGREE, MECHANICAL ENGINEERING

Technical University of Munich (TUM), Munich, Germany

- Specialisation: Product development of mechatronics products, design sprints
- PhD Thesis: A Hackathon Approach for Design Education to Enable Quantitative Analysis of Effort Spent, Product Concept Quality, and Learning Effect in Technical Higher Education (Thesis submitted 05/2024)

12/2022 & 05/2023

### VISITING RESEARCHER, DESIGN ENGINEERING

Imperial College London, London, England

10/2016 - 05/2019

### M.Sc. MECHANICAL ENGINEERING AND MANAGEMENT

Technical University of Munich (TUM), Munich, Germany

- Specialisation: Product development, production and innovation
- Master Thesis: Prototyping Recommendation Framework; A Collection of Prototyping Methods for Early-Stage Product Development (Technical University of Denmark, 05/2019)

02/2018 - 06/2018

### SEMESTER ABROAD, MECHANICAL ENGINEERING

Instituto Superior Técnico (IST), Lisbon, Portugal

10/2011 - 10/2011

### B.Sc. MECHANICAL ENGINEERING AND ECONOMICS

Technical University of Graz (TUG), Graz, Austria

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

02/2002 - 06/2011

### GENERAL HIGHER EDUCATION QUALIFICATION

Taunusgymnasium Königstein, Königstein im Taunus, Germany

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## KNOWLEDGE AND SKILLS

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### Language Skills

German (*native*), English (*business fluent*), Portuguese (*native*), Spanish (*basic*), Italian (*basic*)

### IT Skills

MS Office (*very good*), Miro (*very good*), Adobe Creative Cloud (*good*), Notion (*good*), Trello (*good*), Confluence (*very good*), Jira (*basic*), Python (*basic*), R (*good*), Figma/Adobe XD (*basic*)

### Special Skills

Design Thinking, project management, communication skills, problem solving skills, cross-functional collaboration, stakeholder management

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## OTHER

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### Memberships

Design Society (since 2019), Verein Deutscher Ingenieure (since 2023), Deutscher Alpenverein (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)