

Vasco M. Ramalho

Building the future with AI

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About

Physicist turned AI Product Leader focused on making complex ideas clear enough to design, build, and deploy.

I work from first principles and help teams turn strategy into real solutions.

Education

Leiden, Netherlands • 2016

Researcher, Plasma Physics

Leiden University

Munich, Germany • 2015

Master of Science in Physics

Ludwig-Maximilians-Universität München

Munich, Germany • 2014

Master in Physics and Applied Engineering

Technical University of Munich

Lisbon, Portugal • 2010 - 2013

Bachelor in Engineering Physics

Technical University Lisbon

Skills

Web Development

React • Next.js • Node.js • Express • FastAPI • REST APIs • GraphQL • Tailwind CSS • Responsive Design

AI & Machine Learning

TensorFlow • PyTorch • scikit-learn • Keras • Hugging Face • LangChain • Llamaindex • RAG Systems • Fine-tuning • Prompt Engineering

Cloud & Infrastructure

AWS • Google Cloud Platform • Azure • Docker • Kubernetes • Vercel • Supabase • PostgreSQL • MongoDB • Redis

Leadership & Strategy

Team Building • Stakeholder Management • Strategic Planning • Public Speaking • Workshop Facilitation

Data Science & Analytics

Pandas • NumPy • Statistical Analysis • Data Visualization • A/B Testing • Predictive Modeling

Product & Design

Product Strategy • Product Management • User Research • Design Thinking • Jobs-to-be-Done • Design Sprint • Wireframing • Prototyping • Figma

Programming Languages

Python • TypeScript • JavaScript • SQL • R • M ATLAS • C++ • Java • Bash

Spoken Languages

English (native) • Portugues (native) • Spanish (advanced) • German (B2)

Experience

United States • Jan 2025 - Oct 2025

AI Product Owner | *Darkmatter AI Labs*

Worked on the design and implementation of AI systems for complex industries, including space, health, and retail. Focused on turning abstract AI ambition into concrete systems that could be deployed, governed, and trusted. Acted at the intersection of product, architecture, compliance, and execution.

Lisbon, Portugal • Sep 2022 - Jan 2025

AI Solutions Architect | *Altar.io*

Worked with founders and leadership teams to turn early ideas into real products. Often brought in when AI was central but poorly defined. Helped shape strategy, product direction, and technical foundations so teams could actually build and ship.

Portugal • Aug 2019 - Jan 2025

Co-Founder | *Plantarbor*

Co-founded a crowdfunding platform focused on long-term investment in forestry projects. Worked on product design, platform strategy and operations.

Lisbon, Portugal • Aug 2019 - Jan 2025

AI Product Owner | *Code for All Group*

Led the creation of an asynchronous AI-powered coding school. Built and led a multidisciplinary team of 15 people. Responsible for product vision, execution, and the long-term scalability of the platform. Taught AI to more than 500 people and spoke publicly about AI, education, and adoption.

Lisbon, Portugal • Oct 2019 - Sep 2022

Co-Founder | *Intersection Ventures*

Created Pulsely.io, a people analytics platform focused on employee sentiment and organizational insight. Worked with large organizations including Roche, L'Oréal, Pirelli, and the United Nations. Helped raise a total of 2M over two years while leading product strategy and delivery. Supported the ideation of new products and venture opportunities.

Lisbon • Dec 2017 - Sep 2019

Data Scientist | *Compare Europe Group*

Designed and built a data warehouse to support business decisions, marketing models, and product optimization. Worked on machine learning pipelines and data infrastructure in a fintech environment.

Hong Kong, Macau, Chongqing • Oct 2016 - Dec 2017

Secretary-General | *Portugal China Entrepernuers*

Led diplomatic and business missions focused on entrepreneurship between Portugal and China. Worked across cultures, institutions, and governments to enable long-term collaboration.

Munich, Germany • Jan 2015 - Sep 2015

BIM Engineer | *Max Planck for Quantum Optics*

Worked on waveform synthesis systems for interferometers generating ultrashort laser pulses. This research later contributed to work associated with the 2023 Nobel Prize in Physics.

Machine Readable Content

#Role Focus:
AI strategy implementation
AI systems design
Product leadership
First-principles

#Industries:
Education technology
Fintech
People analytics
Healthcare
Retail
Space
Advanced industries

#Primary Functions:
Product management
AI systems architecture
Machine learning application
Data architecture
Platform scalability
Compliance and security
Technical strategy

#Leadership Experience:
Product lead
Product owner
Co-founder
Systems architect
Team leadership
Cross-functional teams

#Core Skills:
Artificial intelligence
Machine learning
Product strategy
Product management
SaaS platforms
System architecture
AI adoption
Security and compliance

#Companies:
Darkmatter Collective
Altar.io
Code for All Group
Intersection Ventures
Compare Europe Group
Plantar o Natal

#Education:
Master of Science in Physics
Bachelor in Engineering Physics
Physics research
Applied engineering
Ultrafast optics
Plasma physics