

Tiago Lopes Carvalho

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Education

Instituto Superior Técnico	Sep 2023 – Jul 2026 (expected)
B.Sc. Electrical and Computer Engineering, Lisbon, Portugal	
<i>Relevant coursework:</i> Concurrent Programming (19/20, 20/20 project), Data Structures and Algorithms (19/20 project, C), Deep Learning (19/20 project, PyTorch), Telecommunications (19/20 project, GNURadio), Machine Learning (17/20 project, Torch + Sklearn), Programming (15/20, 16/20 project, C), Computer Architectures (14/20, 20/20 project, RISC-V assembly), Automatic Control (14/20, 18/20 project, MATLAB), Modelling and Simulation (14/20, 18/20 project, Simulink).	
Czech Technical University in Prague	Mar & Nov 2025
ATHENS Programme: Applications of Ionizing Radiation (Grade A)	
BIP: Introduction to Lean Six Sigma Management (Grade A)	
Instituto Superior Técnico	Sep 2022 – Jul 2023
B.Sc. Environmental Engineering (transferred to ECE)	
Colégio Valsassina	2022
High School Diploma, Ciências e Tecnologias	Final grade: 16.3

Projects

Undergraduate Research Internship, INESC-ID	Sep 2025 – Present
Full-stack development of geospatial platform (Django/PostgreSQL) for pasture monitoring and forecasting using remote sensing and computer vision; integrates agricultural data APIs. Under João Nuno Silva, DPSS	
Sustainable Ethanol Production & Food Waste Repurposing	Nov 2021 – Sep 2022
Researched enzymatic hydrolysis for bioethanol production from organic residues; co-authored paper and awarded 1st and honorary prize at top national science conventions.	

Experience

Robotics Teacher, RoboThink Portugal	Feb 2025 – Present
Teaching robotics, electronics, and programming (Python & Scratch) to students aged 5–12 through modular project-based learning.	
Sales Promoter, 2WIN Business Partnerships	Nov 2023 – Aug 2024
Participated in product activation campaigns for a Portuguese companies, handling sampling, customer engagement, and feedback collection across retail locations.	

Activities and Societies

NAF – Núcleo de Arte Fotográfica	2023 – Present
<i>Teacher & Darkroom Supervisor</i>	
Teaching analog photography courses (N1), and member of senior management.	
SINFO – Marketing Team	2025 – Present
Driving the digital strategy of the single largest free technology event in Portugal. Managed and produced content, social media campaigns, and event materials.	
HackerSchool – API Team	2024 – Present

Languages

Portuguese: Native
English: Bilingual (Cambridge C2, Grade A, 222/230)
Spanish: Intermediate (DELE B1)
References available upon request.