Valter Piedade

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PhD student on Computer Vision and Artificial Intelligence at Instituto Superior Técnico, working at the Institute for Systems and Robotics (ISR-Lisboa)

Experience	
Mitsubishi Electric Research Laboratories, Consultant	Jul 2024 – present
 Accenture, Summer Intern Lisbon, Portugal Developed Microsoft Excel macros in Visual Basic to speed up tasks performed by my team. 	Jul 2018 – Aug 2018
Education	
PhD degree in Electrical and Computer Engineering , <i>Instituto Superior Técnico</i> Lisbon, Portugal Research areas: Computer Vision; Artificial Intelligence; SLAM; and Robotics Student at the Institute for Systems and Robotics (ISR-Lisboa)	2022 – present
MSc degree in Electrical and Computer Engineering , <i>Instituto Superior Técnico</i> Lisbon, Portugal Major in Systems, Decision and Control and minor in Computers Thesis: Retail Store Visual Structure-from-Motion	2019 - 2021
BSc degree in Electrical and Computer Engineering , <i>Instituto Superior Técnico</i> Lisbon, Portugal Awarded a Diploma of Academic Merit in 2015/2016	2015 - 2019
Projects	
 STORESLAM: Accurate Agent Localization and Mapping Methods for Structured Indoor Retail Store Environments Research Grant Developed a Visual SLAM system for an autonomous mobile robot in a retail store environment using a single store and the system for an autonomous mobile robot in a retail store environment using a single s	Sep 2020 – present
 Developed a visual SLAM system for all autonomous mobile robot in a retain store environment using a sing - Designed and implemented the system from scratch in C++, featuring multithreading and a variety of optime. Inputs and outputs were managed using C++ ROS, and visualization using VTK. 	nization processes;
Publications	
BANSAC: A dynamic BAyesian Network for adaptive SAmple Consensus [project page] IEEE/CVF International Conference on Computer Vision (ICCV) – Published V. Piedade and P. Miraldo	Paris, France 2023
A Probability-guided Sampler for Neural Implicit Surface Rendering [project page] European Conference on Computer Vision (ECCV) – Published G. D. Pais, V. Piedade , M. Chatterjee, M. Greiff, and P. Miraldo	Milan, Italy 2024
Skills	

ProgrammingC++, Python, CMake, GitSoftwareOpenCV, Open3D, ROS 1/2, g2o, Ceres, VTK, Linux

Languages_

PortugueseNative proficiencyEnglishProfessional working proficiency