DIOGO SANTOS

Porto, Portugal www.diogosantos.me diogo.rgsantos@gmail.com



ABOUT ME

I am a Jack-of-all-trades, keen on mastering them all. Showing my talents in order to add value to the roles I perform and improving even further is one of my passions. I have a particular interest in Artificial Intelligence areas such as Machine Learning, Planning, Computer Vision and Robotics. Outside computers, I am a poetry writer, music lover, photography enthusiast and a fairly decent juggler.

EDUCATION

Faculdade de Engenharia da Universidade do Porto

Master in Informatics and Computing Engineering

Final grade: 18/20 - Grade A on the European grading scale

2011 - 2016

WORK EXPERIENCE

ESO - European Southern Observatory

Control software engineer

Munich, Germany Jul 2017–Jul 2019

- Development of control software for the European Extremely Large Telescope (E-ELT)
- Prototyping, development and documentation of software under strict requirements
- Implementation of low-level, high-performance, control loops using C and C++
- Implementation of high-level tools and interfaces using Python and Qt
- Development and testing of automated continuous software deployment solutions
- Participation in DevOps related prototyping and development

LIACC – Artificial Intelligence and Computer Science Laboratory

Researcher and developer

Porto, Portugal Jul 2016–Apr 2017

- Application of Computer Vision methodologies to Intelligent Transportation Systems
- Industry integration of research results in collaboration with the company Armis Group

MASDIMA

Porto, Portugal Oct 2014–Sep 2015

- Systems integrator and developer
- Multi-agent protocol/algorithm development and maintenance
- · Pre-existent systems integration and documentation

TECHNICAL SKILLS

- Operative Systems: Windows (4/5), Linux (3/5), Android (4/5), iOS (1/5), Mac OS (1/5)
- **Programming Languages:** Java (4/5), Python (3/5), C++ (3/5), C# (3/5), C (3/5), JavaScript (3/5), Scala (2/5)
- Web Technologies: HTML5 + CSS (3/5), Spring Framework (3/5), Node.js (2/5), AngularJS (2/5), PHP (2/5)
- **Databases:** PostgreSQL (4/5), MySQL (2/5), SQLite (2/5)
- Machine Learning & Computer Vision Tools: RapidMiner (3/5), OpenCV (3/5), TensorFlow (2/5)
- Continuous Integration and Deployment Tools: Jenkins (3/5), HashiCorp Nomad (3/5)
- Other Tools and Frameworks: LATEX (4/5), FFmpeg (3/5), Qt (2/5)

PROFESSIONAL	L DEVELOPME	NT	
			Ion Managar
Artificial Intelligence Coursera – Edinburgh Uni	=		Jan–Mar 2015
Machine Learning Co			Sep-Dec 2014
Coursera – Stanford Unive			Sep
PUBLICATIONS	(complete lis	t on my personal websi	te)
The ELT M1 Local Co	ontrol Software: Fro	om Requirements to	2019
Implementation			
Physics Control Systems (ICALEPCS2019)	elerator and Large Experimental L. Frahm, T. R. Grudzien, N. Kornweibel,	
D. Ribeiro Gomes Santos,	_		
	-	g Urban Indicators Through	2018
Computer Vision 2018 IEEE International S	- Smart Cities Conference ((ISC2)	
Authors: Sara Paiva, Diogo			
•		Tetworks for Electric Mobility	2018
Simulation: An Exam Developments and Advance	_		
Authors: Diogo Santos, Jos			
Integrating Electric			2016
A First Appraisal			
Master's Degree Dissertat Faculdade de Engenharia o	_	ics and Computing Engineering	
DISSERTATION	SUPERVISION	V	
_	icators Through Co	mputer Vision on Google	2018
Street View	ion Maaton in Informat	ics and Computing Engineering - FEUP	
· ·		tti; Co-Supervisor: Diogo Santos	
Computer-Vision-based Surveillance of Intelligent Transportation			2017
Systems			/
Master's Degree Dissertat	_	ics and Computing Engineering - FEUP tti; Co-Supervisor: Diogo Santos	
COMPLEMENTA	ARY ACTIVITIE	ZS .	
• Microsoft – Microsoft Student Partner			Nov 2014-Sep 201
Sponsored by Microsoft to hold events and lectures.			
nuIEEE – IEEE Student Branch, Universidade do Porto			2013-2016
Member. Official IEEE bra	-		
Presenter - nuIEEE J	-		Mar 2014
Along with logistics, creati	on of tutorial exercises ar	nd technical support.	
LANGUAGES			
Portuguese Native language	English Advanced	Spanish Basic – Intermediary	German Basic