Bruno ROQUE

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D.O.B.:   06 October 1989
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PROFESSIONAL EXPERIENCE

PRESENT NOV 2017	**Software Developer** at Spoud AG, Bern
AUG 2017 APR 2017	**Software Engineer** at Vodafone, Glasgow Development of desktop applications using .NET (C#, WPF), SQL, and Python in order to automate processes. Improved the drop call rate of northern areas in the UK by more than 30%.
MAR 2017 OCT 2015	**Software Engineer R&D** at Celfinet, Lisbon Software development using .NET (C#), and test driven development. Research on algorithms of geolocation for mobile and IoT networks using radio frequency propagation models. Improved the geolocation error of 278 meters to less than 131 meters. Use of genetic algorithms to calibrate those models.
SEP 2015 JAN 2015	**Software Engineer R&D** at Instituto Telecomunicações, Lisbon Software development, using C++ (OpenCV), of video processing algorithms: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint. The algorithm for the detection of flashes was published and presented at QoMEX 2015 conference.

EDUCATION

DEC 2014 SEP 2007	**MSc in Electrical and Computer Engineering** Instituto Superior Técnico, Lisbon Main Subjects: Algorithms and Data Structures, Computer Networks and the Internet, Information Systems and Databases, Mobile Communication Systems, Networks and Computer Security, Object Oriented Programming, Optical Fiber Telecommunication Systems, Radio Wave Propagation.

PUBLICATIONS

JUL 2015	Roque, B., "Improving Energy Efficiency in Cellular Networks Using Multicell Cooperation", In: 10th Conference on Telecommunications, ConfTele 2015.
MAY 2015	Carreira, L. and Rodrigues, N. and Roque, B. and Queluz, M.P., "Automatic Detection of Flashing Video Content", In: Quality of Multimedia Experience (QoMEX), 2015 Seventh International Workshop on, pp. 1-6.

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LANGUAGES

PORTUGUESE:	Native
ENGLISH:	Proficient User
GERMAN:	Basic Knowledge (A2)

SOFTWARE SKILLS

Advanced Knowledge:	C#, C++, Java, SQL, Matlab, LaTeX
Basic Knowledge:	HTML/CSS, JavaScript, Python
Software Development:	Test Driven Development, SOLID, Clean Code, Agile
Software:	Visual Studio IDE/Code, IntelliJ IDEA, Git, SQL Server

PROFESSIONAL DEVELOPMENT

- Genetic Algorithm, Machine Learning, Blockchain, Decision Tree Player, Chess Engine, and other side projects on GitHub.
- Front-End Web Developer Nanodegree, by Udacity, September 2017.
- Machine Learning, by Stanford University on Coursera, April 2017.

ACHIEVEMENTS

- Federated Chess Player.
- Open Water Diver, by Professional Association of Diving Instructors, November 2016.
- Driving License B/B1, January 2010.

INTERESTS AND ACTIVITIES

Chess, Classic Literature, Cinema, Music (Guitar), World History, Philosophy, Board Games, Cycling, Skiing, Swimming.