

# Bruno ROQUE

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GITHUB: <https://github.com/BrunoRoque06>



## PROFESSIONAL EXPERIENCE

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AUG 2017	<b>Software Engineer</b> at Vodafone, Glasgow
APR 2017	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	<b>Software Engineer R&amp;D</b> at Celfinet, Lisbon
OCT 2015	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	<b>Software Engineer R&amp;D</b> at Instituto Telecomunicações, Lisbon
JAN 2015	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

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DEC 2014	<b>MSc in Electrical and Computer Engineering</b>
SEP 2007	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

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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

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PORTUGUESE: Native  
ENGLISH: Proficient User  
GERMAN: Basic Knowledge ([A1 Goethe Institute](#), currently enrolled in A2)

## SOFTWARE SKILLS

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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

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- Genetic Algorithm, Machine Learning, Blockchain, Binary 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

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

## INTERESTS AND ACTIVITIES

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