

# BRUNO ROQUE

SOFTWARE ENGINEER

ADDRESS: Bern, Switzerland  
D.O.B.: 06 October 1989  
NATIONALITY: Portuguese  
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GITHUB: <https://github.com/BrunoRoque06>



## PROFESSIONAL EXPERIENCE

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PRESENT NOV 2017	<b>Software Developer</b> at Spoud AG, Bern, Switzerland
AUG 2017 APR 2017	<b>Software Engineer</b> at Vodafone, Glasgow, Scotland Development of desktop applications in order to automate processes. Improved the drop call rate of northern areas in the UK by more than 30%.
MAR 2017 OCT 2015	<b>Software Engineer R&amp;D</b> at Celfinet, Lisbon, Portugal 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 the models.
SEP 2015 JAN 2015	<b>Software Engineer R&amp;D</b> at IT, Lisbon, Portugal Software development of video processing algorithms: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint.

## EDUCATION

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

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## LANGUAGES

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

## SKILLS

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Technologies: Java, Spring, Node.js, Typescript, Reactive Streams (Rx-Java), Git, Docker, Z shell, C#, SQL, HTML/CSS, Python  
Software Development: Test Driven Development, SOLID, Clean Code, Agile

## PROFESSIONAL DEVELOPMENT

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- 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

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

## INTERESTS

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Chess, Classic Literature, Cinema, Board Games, Hiking, Cycling, Skiing, Swimming.