

# BRUNO ROQUE

SOFTWARE ENGINEER

D.O.B.: 06 October 1989  
NATIONALITY: Portuguese  
CIVIL STATUS: Married  
ADDRESS: Zürich, Switzerland  
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GITHUB: <https://github.com/brunoroque06>



## PROFESSIONAL EXPERIENCE

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PRESENT 06.2019	<b>Software Engineer</b> at Raccoon Works, Zürich, Switzerland
05.2019 11.2017	<b>Software Developer</b> at Spoud AG, Bern, Switzerland Development of a real-time transport layer using Reactive Streams (RxJava), gRPC (with Protocol Buffers), Apache Kafka. Development of a REST API (including Server Side Events) using Spring Web/WebFlux, Reactor, JPA, Swagger.
08.2017 04.2017	<b>Software Engineer</b> at Vodafone, Glasgow, Scotland Development of a desktop application to automate the planning of neighbours in cellular networks. Improved the drop call rate of northern areas of the UK by more than 30%.
03.2017 10.2015	<b>Software Engineer R&amp;D</b> at Celfinet, Lisbon, Portugal Research of geolocation algorithms for mobile and IoT networks using radio frequency propagation models. Improved the geolocation error of ~278 meter to less than 131 meter. Use of genetic algorithms to calibrate the models.
09.2015 01.2015	<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

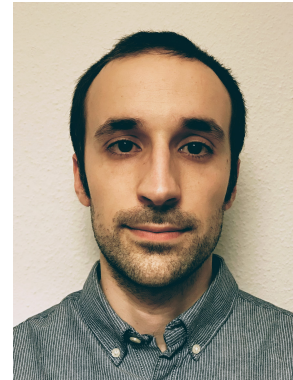
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12.2014 09.2007	<b>MSc in Electrical and Computer Engineering</b> Instituto Superior Técnico, Lisbon Main Subjects: Algorithms and Data Structures, Computer Networks and the Internet, Information Systems and Databases, Mobile Communication Systems, Networks and Computer Security, Object Oriented Programming, Optical Fiber Telecommunication Systems, Radio Wave Propagation.
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## PUBLICATIONS

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- 07.2015 Roque, B., "Improving Energy Efficiency in Cellular Networks Using Multicell Cooperation", In: 10th Conference on Telecommunications, ConfTele 2015.
- 05.2015 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.

## SKILLS

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TECHNOLOGIES: Java (Spring), Reactive Streams (RxJava), NodeJS (Typescript), Python, Golang, Apache Kafka, Docker  
DEVELOPMENT: Test Driven Development, SOLID, Clean Code

## PROFESSIONAL DEVELOPMENT

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- PRESENT Genetic Algorithm, Blockchain, Decision Tree Player and other side projects on [GitHub](#).
- 02.2019 [Java Web Services and RESTful API with Spring](#), by Udemy.
- 01.2019 [Learn Apache Kafka for Beginners v2](#), by Udemy.
- 11.2017 [Front-End Web Developer Nanodegree](#), by Udacity.
- 04.2017 [Machine Learning](#), by Stanford University on Coursera.

## ACHIEVEMENTS

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- 03.2017 Federated [Chess Player](#).
- 11.2016 Open Water Diver, by PADI.
- 01.2010 Driving License B/B1.

## LANGUAGES

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PORTUGUESE: Native  
ENGLISH: Proficient  
GERMAN: Intermediate ([A2](#))



INSTITUTO  
SUPERIOR  
TÉCNICO

**Núcleo de  
Graduação**

*Maria Cristina de Oliveira Santos Matos David Ezra,  
Coordinator of NÚCLEO DE GRADUAÇÃO of INSTITUTO SUPERIOR TÉCNICO,  
UNIVERSIDADE DE LISBOA*

*CERTIFIES that,*

*BRUNO MIGUEL VIEIRA ROQUE -----*

*with Identity Card Num. 13628158 -----*

*birth originally from Entroncamento -----*

*and PORTUGUESE nationality -----*

*concluded the 2nd Cycle, of the degree in INTEGRATED MASTER  
DEGREE (MSC) in ELECTRICAL AND COMPUTER ENGINEERING, on the 02  
February 2015, with the final grade of 14 (fourteen) values  
having received a total of 121.5 ECTS, has the right to the  
degree of Master in Electrical and Computer Engineering, having  
been issued the registry diploma number 9292/ISTCM/15.*

*Maria Cristina de Oliveira Santos Matos David Ezra  
Coordinator of Núcleo de Graduação*

*Instituto Superior Técnico, Lisboa, on the 13 of March, 2015*

Student No. 63966  
Register No. 2684/2015  
Conferred by: \_\_\_\_\_

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