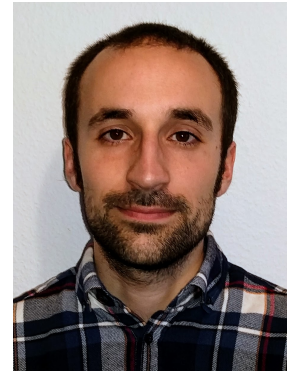


# BRUNO ROQUE

SOFTWARE ENGINEER

ADDRESS: Bern, Switzerland  
D.O.B.: 06 October 1989  
NATIONALITY: Portuguese  
MARITAL STATUS: Married  
PHONE: (+41) 765 174 226  
EMAIL: [brunoroque06@gmail.com](mailto:brunoroque06@gmail.com)  
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WEBSITE: <https://brunoroque06.github.io>  
GITHUB: <https://github.com/brunoroque06>



## PROFESSIONAL EXPERIENCE

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PRESENT NOV 2017	<b>Software Developer</b> at Spoud AG, Bern, Switzerland Development of a real-time transport layer using gRPC (with Protocol Buffers), Apache Kafka, Reactive Streams (RxJava). Development of a REST API using Spring Rest, JPA, Hibernate.
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 of the UK by more than 30%.
MAR 2017 OCT 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.
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

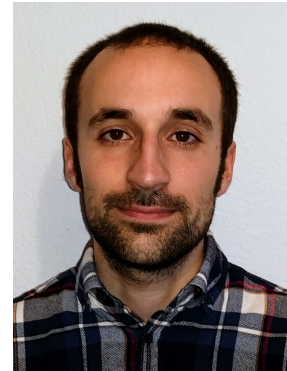
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JUL 2015	Roque, B., "Improving Energy Efficiency in Cellular Networks Using Multicell Cooperation", In: 10th Conference on Telecommunications, ConfTele 2015.
MAY 2015	Carreira, L. and Rodrigues, N. and Roque, B. and Queluz, M.P., "Automatic Detection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

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GITHUB: <https://github.com/brunoroque06>



## LANGUAGES

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

## SKILLS

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TECHNOLOGIES: Java (Spring), Reactive Streams (RxJava), NodeJS (Typescript), Python, Golang, Apache Kafka, Docker  
TOOLS: IntelliJ, VSCode, Git, Bash/Zsh, Vim, Tmux  
DEVELOPMENT: Test Driven Development, SOLID, Clean Code

## PROFESSIONAL DEVELOPMENT

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- Genetic Algorithm, Blockchain, Decision Tree Player and other side projects on [GitHub](#).
- [Apache Kafka Series - Learn Apache Kafka for Beginners v2](#), by Udemy, January 2019.
- [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.



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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Urgency.....	0.00 Eur	Page 1 of 1
Total	20.12 Eur	