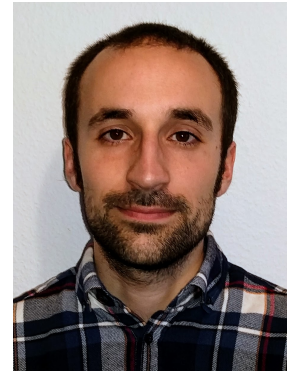# BRUNO ROQUE
SOFTWARE ENGINEER

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

PROFESSIONAL EXPERIENCE

PRESENT 11/2017	**Software Developer** 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.
08/2017 04/2017	**Software Engineer** 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%.
03/2017 10/2015	**Software Engineer R&D** at Celfinet, Lisbon, Portugal
	Research of geolocation algorithms for mobile and IoT networks using radio frequency propagation models. Improved the geolocation error of $\sim$278 meter to less than 131 meter. Use of genetic algorithms to calibrate the models.
09/2015 01/2015	**Software Engineer R&D** 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

12/2014 09/2007	**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

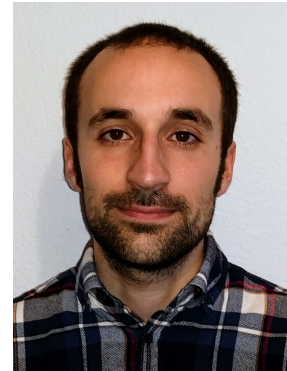|	
07/2015	Roque, B., "Improving Energy Efficiency in Cellular Networks Using Multicell Cooperation", In: 10th Conference on Telecommunications, ConfTele 2015.
05/2015	Carreira, L. and Rodrigues, N. and Roque, B. and Queluz, M.P., "Automatic Detection of Flashing Video Content", In: Quality of Multimedia Experience (QoMEX) 2015.

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SKILLS

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

PRESENT	Genetic Algorithm, Blockchain, Decision Tree Player and other side projects on GitHub.
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

03/2017	Federated Chess Player.
11/2016	Open Water Diver, by PADI.
01/2010	Driving License B/B1.

LANGUAGES

PORTUGUESE:	Native
ENGLISH:	Proficient
GERMAN:	Intermediate (A2)

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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Total	20.12 Eur	