

BRUNO ROQUE

SOFTWARE ENGINEER

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



PROFESSIONAL EXPERIENCE

PRESENT 06.2019	Software Engineer at Raccoon Works, Zürich, Switzerland
05.2019 11.2017	Software Developer 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	Software Engineer 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	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 ~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.

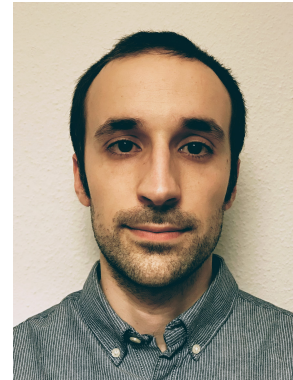
EDUCATION

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.
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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.

SKILLS

TECHNOLOGIES: Java (Spring), Reactive Streams (RxJava), NodeJS (Typescript), Python, Golang, Apache Kafka, Docker

DEVELOPMENT: Test Driven Development, SOLID, Clean Code

PROFESSIONAL DEVELOPMENT

- 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

- 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](#))



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: _____

Stationery..	0.12 Eur	
Cert. Amount	20.00 Eur	
Urgency.....	0.00 Eur	Page 1 of 1
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