

Berkay KÖKSAL  
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## Objective

An opportunity in a Data Science and IoT related field to improve current knowledge and provide high quality development and integration process

## Technical Skills

### Software Skills

Python, C, C++, C#, VB.NET, SQL, Google Firebase, Android-Java/Kotlin, Xcode-Swift/ObjectiveC, Javascript, HTML/CSS, Assembly, MatLab Simulink, ElasticSearch/Kibana, Apache Kafka, TensorFlow, Apache Spark, Webservers, Canoe/CAPL IoT Protocols (XMPP, MQTT, LoRa, RFID, AMQP, SomeIP)

### Hardware Skills

Vehicular Vector Hardware (CAN, LIN, SomeIP, Eth Bus), CPU design, Pipeline design, Advanced computer architecture, RAM design, Arduino, Logisim, RFID transmitter and receiver

### Combined Skills

Parallel and Distributed Systems, Robotics (EV3, Gazebo, RVIZ, ROS), Discrete Event Simulations (GPSS), RISC/CISC instructions and hardware design

### Related Skills

Project Management(Scrum,Agile), Software Engineering (UML, CI, JIRA, JUnit Testing), IT Law, Economics

## Education

2017 - 2019    EURECOM Sophia Antipolis / FRANCE / Internet of Things, Master's Degree

2013 - 2017    Istanbul Technical University / TURKEY / Computer Engineering, Bachelor's Degree

2014 - 2015    Malmö University / SWEDEN / Computer Science, Erasmus+ Exchange Program

## Work Experience

2019 - Current    *Renault Software Factory*, Sophia Antipolis, France, ADAS/AD Software Engineer

2018              *EURECOM Mosaic5G Slicenet*, Biot, France, Lab Researcher

2017              *Prizma RFID*, Bursa, Turkey, Software Developer

2016              *KoçSistem*, Istanbul, Turkey, Android Development Team

## Related Experience

2018              Researcher – TTOOL ParisTech, Automated IoT Code generation – Open Source Project

2017              Freelance Mobile Developer – İTÜKİŞ\* Festival application – IOS/Android App Store

2015              Malmö University, C# and VB.NET windows applications development courses

## Languages

Turkish: Native speaker

English: Near native speaker

French: Intermediate

Swedish: Beginner

## Publications

("ElasticSDK: A Monitoring Software Development Kit for enabling Data-driven Management and Control in 5G"), IEEE NOMS 2020 - 2020 IEEE/IFIP Network Operations and Management Symposium, Budapest, Hungary, 2020, pp. 1-7, doi: 10.1109/NOMS47738.2020.9110373.

Berkay Köksal, Xenofon Vasilakos, Navid Nikaein, Robert Schmidt and Nasim Ferdosian

("Integrated Methodology to Cognitive Network & Slice Management in Virtualized 5G Networks"), May 2020. Xenofon Vasilakos, Navid Nikaein, Dean H. Lorenz and Berkay Köksal

("4G and 5G RAN monitoring data collected using the ElasticMon 5G monitoring framework over FlexRAN"), CRAWDAD 2019. Berkay Köksal, Robert Schmidt, Xenofon Vasilakos, Navid Nikaein

("Service development for vehicle functions"), EURECOM 2019, Biot, France, Berkay Köksal, MSc Graduation Thesis

("Design and Implementation of Fully Associative Instruction Cache Memory"), ITU 2017 ITU Digital Library, Istanbul, Turkey, 2017. Berkay Köksal and Assoc. Prof. Feza Buzluca, BSc Graduation Project

## Organizations

MOSAIC 5G Initiative ~ Developer and Follower

IEEE Computer Society ~ Member

İTÜKış\* Winter Sports Team ~ Team Captain

## Personal

Professional skiing, playing guitar, drawing, chess, bowling, 3D VR modelling

## References

Guillaume Menez

ADAS/AD Software Engineering Manager

AVA Control Department

Renault Software Factory, FRANCE

Navid Nikaein

Associate Professor

Communication System Department

EURECOM, Biot FRANCE

Berk Canberk

Associate Professor

Electrical and Computer Engineering Department

Northeastern University, BOSTON Massachusetts USA

*References available upon request*