Milica Katic

Experience

2015

2016 Student researcher, Microsoft research summer school

Serbia News articles and comments corpus preprocessing

Developed an efficient pipeline for preparing a text corpus for training, validation and test sets for few different machine learning algorithms using Java and Stanford NLP libs.

Software Engineer Intern, Cardea d.o.o.

Serbia *QR* code cards for elementary schools

Developed backend logic for Android application for customized tablets to help in navigation and class scheduling. Proof of concept in MATLAB, productionized in Java.

2014 Engineer Intern, University of Siegen

Germany Architecture and specification of SIP protocol for Compressive Sensing

Extended the specification for SIP protocol to enable Compressive Sensing data

transmission, and verified it with MATLAB and Java implementations.

2013 Software Engineer Intern, Hardware Development Laboratory, INATEL

Brazil Control software for Agilent and Anritsu instruments

Developed software in Python for several lab instruments, as part of the statewide project for

expanding digital television in Brazil.

2012 Engineer Intern, National Agency for Electronic Comm.

Serbia Interoperability of antenna radiation pattern

Created format and developed software to transfer radiation pattern of antennas from the

EMLAB software package to the ATDI Telecom software package.

Academic projects

2014-2017 Student-researcher, University of Belgrade

Research in multirate systems - CIC FIR decimation filters

Analyzed and integrated two-stage linear-phase comb-based FIR filter in order to improve pass-band droop and increase maximum stop-band attenuation for high-order digital filters

with analysis of sharpening methods responsible for pass-band droop correction.

2012-2014 Student-assistant, University of Belgrade

MIMO systems, Telecommunication Measurments 1 and 2

Led a team of assistants in preparation and execution of planned exercises, and helped professor in writing guidelines for lab exercises and in conducting quizzes.

2013 Thesis for Undergraduate studies, University of Belgrade

Cognitive radio – Simulation of MAC protocol

Developed a simulation of MAC protocol usage patterns in Cognitive radio networks.

Education

2014-2017 PhD dropout, Digital Signal Processing

School of Electrical Engineering, University of Belgrade, Serbia

2013-2014 Master of Engineering in Systems Engineering

School of Electrical Engineering, University of Belgrade, Serbia

2009-2013 Bachelor of Science in Electrical Engineering and Computer Science

School of Electrical Engineering, University of Belgrade, Serbia

Published papers

2016 Implementation of Some Types of Modified CIC Decimator, J Certic, M Katic, L Milic, ETRAN

2015 Multi-stage Comb-based Decimation Filter, M Katic, J Certic, TELFOR