

# Tijana Živković

## Information and Communication Technology

### SUMMARY

Resourceful and versatile final year student of information technologies, with broad areas of interest covering both software and hardware engineering. Utilize creative thinking and connect knowledge from different fields to detect the most optimal and efficient solutions.

### CORE COMPETENCIES

- Telecommunications
- Internet of Things
- Interdisciplinary Thinking
- Software Development
- Network Engineering
- Hardware Engineering

### EDUCATION

**BACHELOR OF SCIENCE IN SYSTEM ENGINEERING**, Telecommunications and Information Technology Department, School of Electrical Engineering, University of Belgrade **2016 - 2020**

### PROJECTS

#### BENEFIT

Feb 2019 – Oct 2020

##### Student Representative

Project “BENEFIT – Boosting the telecommunications engineer profile to meet modern society and industry needs” is co-funded by the ERASMUS+ KA2 Capacity Building Program. It is a project coordinated by the University of Klagenfurt, Austria

- Served as a representative of students from the School of Electrical Engineering, University of Belgrade, in the BENEFIT Project Quality Board.
- The goal of the project is to render the study program more attractive and to boost the telecommunications engineer profile.

#### FOFDM - Filtered Orthogonal Frequency Division Multiplexing

Jun 2019

##### Participant

Filtered Orthogonal Frequency Division Multiplexing (FOFDM) - Enabler for Flexible Waveform in the 5th Generation Cellular Networks.

- Participated in a group project as a part of third year course, Signal Processing 2.
- The goal was to simulate filtered – OFDM, which has been suggested as one of the solutions for upcoming 5G cellular networks. We did a simulation in MatLab.
- Aside from writing code, I have strived toward maintaining effective group dynamics to meet project goals and deadlines.

#### Movement recognition using CSI obtained from a Wi-Fi AP

Jan 2019

### Participant

Participated in a project as a part of a third-year course. A program in GNU Octave used to determine human movement in a room based on channel state information obtained from a Wi-Fi access point.

### Quadrature Phase Shift Keying - QPSK modulation in MATLAB

Dec 2018

### Participant

Worked on the simulation of QPSK in MATLAB, because it is one of the most used phase shift keying digital modulation, due to its simplicity, excellent power and bandwidth efficiency.

### Google HashCode 2018

Mar 2018

### Participant

As a member of a 3-student team, took part in an online competition between 37.000 teams.

- With a time limit of 12 hours, the goal was to complete a specific assignment as fast as possible, using a programming language of choice (we worked in C++).
- Received a certificate for the successful and timely completion.

### Physical implementation of KHN filter

Dec 2017

### Participant

Learned the creation of an electric circuit through the physical implementation of KHN (Kerwin-Huelsman-Newcomb) filter using different electronic components.

## LICENCES & CERTIFICATIONS

Cisco Networking Academy, IoT Fundamentals: Connecting Things, September 2019

## TECHNOLOGIES

Languages: C, C++, Python, MATLAB, LabVIEW, Octave, PHP

Environments: Linux, Windows

Client Software: Microsoft Office

## AFFILIATIONS

EESTEC, Electrical Engineering Students' European Association

## ADDITIONAL INFORMATION

Languages: English – fluent, German – intermediate, Serbian – native

Interests: robotics, interior design, horse riding, traveling, reading, fitness, Arduino and Raspberry Pi