Aleksandar Minja

Date of Birth: 19.06.1987.

Country: Serbia
City: Zrenjanin, 23000
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Education

Undergraduate studies (Graduated summa cum laude 2010):

School: Faculty of Technical Science, University of Novi Sad, Serbia

Department: Electrical Engineering and Computer Science - Telecommunications and Signal Processing

Time: 2006-2010

Degree: BACHELOR OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING, October, 2010

Average grade: 9.58/10.00

Master studies (Graduated summa cum laude 2011):

School: Faculty of Technical Science, University of Novi Sad, Serbia

Department: Electrical Engineering and Computer Science - Telecommunications and Signal Processing

Time: 2010-2011

Degree: MASTER OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING, September, 2011

Average grade: 10.00/10.00

PHD studies (Current):

School: Faculty of Technical Science, University of Novi Sad, Serbia

Department: Electrical Engineering and Computer Science - Telecommunications and Signal Processing

Enrolled: 2011

Average grade: 10.00/10.00

Forums and Symposiums:

School: First European Training School in Network Coding , ICT Cost Action IC1104

Topic: Random Network Coding and Designs over GF(q)

Date: 04.02.2013 –08.02.2013

School: European School of Information Theory (ESIT)

Topic: Information Theory

Years: 2013, 2014, 2015 and 2016

Forum: 10th Heidelberg Innovation Forum

Date: 12th of April 2010

Presentation: Zesium, FAR Vision

Symposium: 5th European CubeSat Symposium

Date: 3rd - 5th of June, 2013

Training Program: Teaching and Research for Academic Newcomers (TRAIN) – 2015

Finished modules:

- Didactics and curriculum design (Didaktika i dizajn kurikuluma u visokom obrazovanju)
- Project management (Priprema projektnih aplikacija i menadzment projekata)
- Entrepreneurship (Preduzetničke sposobnosti)
- Networking and teamwork (Umrežavanje i timski rad)

Languages

Serbian – native

English – excellent

Romanian – excellent

German – basic

French – basic

Skills and Interests

I have many various skills and a vast amount of knowledge, especially in the computer field. I am also always eager and ready to learn new things.

Skills:

- Create and design projects from conception to end product.
- Professional and effective
- Team player.
- Excellent oral and verbal communication.
- Graphic Design and technical skills.
- Very good at problem solving and research
- Experience in modeling, simulation and analysis of complex communication systems
- Capable of designing complex communication systems from start to finish.
- Practicle experience in design of satelite and network communication systems
- Experience in algorithm design for distributed network systems, point-to-point communications and system simulations
- Advanced knowledge of text processing and file management

Fields of interest: Coding and Information Theory, Augmented reality, Computer Vision, Data Mining and Visualization, Image processing, Pattern recognition, Computer Science, Data Security and Cryptography, etc

Computer Skills

OS: Windows, Linux, Android

Known programming paradigms: Procedural, Structured, Object-Oriented, Concurrent, Parallel and Functional

Programming Languages: C/C++, MATLAB, Python, C#, Java, Haskell, GoLang, Javascript …

Frameworks and Libraries: OpenCV, Weka, QT, .Net, ARToolkit, Django, WxWidgets, etc.

Other: Experienced with MS Office, Open Office and LaTeX, Intermediate knowledge of Server Administration and Website design, Basic knowledge of OS Virtualization, and other.

Notable Achievements

Awarded "Dr Ilija Stojanović award" for best graduating student by Telenor foundation in 2010

Awarded scholarship "Dositej" for 1000 most talented students by the Ministry of Education of Republic of Serbia in 2010

Awarded scholarship "Dositej" for 1000 most talented students by the Ministry of Education of Republic of Serbia in 2011

First team place in Telecommunications - Elektrijada 2008, the international competition of Schools of Electrical Engineering

Third team place in Telecommunications - Elektrijada 2009, the international competition of Schools of Electrical Engineering

Notable Publications

1. Aleksandar Minja, Vojin Šenk, "FAR Vision - Data Visualization system for firefighters", Telfor 2011, Belgrade - Serbia
2. Aleksandar Minja, Vojin Šenk, "Indoor navigation system for firefighters", Telfor 2011, Belgrade - Serbia
3. Minja A., Stanojevic I., Senk V., "TCM Design Optimizing Set Partitioning of 3-dimensional Spherical Codes", Telfor 2013, Belgrade
4. Minja A., Stanojevic I., Senk V., "Novel Quasi-Analytical Simulation Method for Estimating the Error Probability in AWGN Channel", International Conference on Telecommunications and Signal Processing (TSP), Berlin 2014
5. Minja A., Stanojevic I., Senk V., "Novel Quasi-Analytical Simulation Method for Estimating the Error Probability over the BSC", International Conference on Telecommunications and Signal Processing (TSP), Prague 2015
6. Dusan Jakovetic, Aleksandar Minja, Dragana Bajovic, Dejan Vukobratovic, "Distributed Storage Allocations for Neighborhood-based Data Access", ITW, Jerusalem 2015

Experience

Current employer: **:** Faculty of Technical Science, University of Novi Sad

Trajanje: Oct. 2011 – Current

Job title: Teaching assistant

Internships:

Employer: Zesium mobile
Time: 2 weeks, Summer 2010
Activities: Research of Augmented Reality technologies

Employer: Zesium mobile
Time: 2 weeks, Summer 2011
Activities: Research of Navigation and Tracking technologies

Employer: Qualcomm Research Vienna
Time: 4 months Internship, Summer 2012 (04.06.2012 – 03.10.2012)
Activities: : Working in area of Computer Vision and Augmented Reality

Employer: Qualcomm Technologies, Inc. Vienna
Time: 2 months Internship extension, 2013 (07.01.2013 – 08.03.2013)
Activities: : Working in area of Computer Vision and Augmented Reality

Teaching experience:
- C/C++ Programming (E1 KTIOS – internal course)
- Development tools for communications and signal processing 1 (E1 KTIOS)
- Development tools for communications and signal processing 2 (E1 KTIOS)
- Modeling and simulation of communication systems (E1 KTIOS)
- Wireless Ad-hoc networks (E1 KTIOS)
- Principles of digital communications (E1 KTIOS and PTT)
- Basics of telecomunications (Microcomputer Electronics)
- Communication systems (Biomedical Engineering)
- Exploitation of telecommunication networks (PTT)

Project Participation:
- Project III44003 – Integrated system for detection and estimation of fire development by real-time monitoring of critical parameters (Ministry of Education, Science and Technological Development of Republic of Serbia)
- COST Action IC1104 Random Network Coding and Designs over GF(q)
- QB50, an international network of 50 CubeSats for multi-point, in-situ measurements in the lower thermosphere and re-entry research (participation finished)