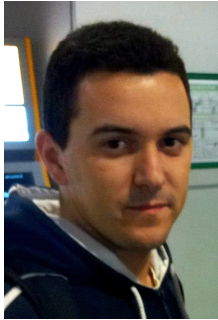


igorperic

computer vision and robotics master degree student



contact

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residence

Glavice 212
Bijeljina, 76318
Bosnia and
Herzegovina

languages

serbian mother tongue
english fluency
spanish elementary

programming

♥ C#, C++
C, Matlab, Python

personal

born in 1991
Bosnian nationality

education

2013–2015 **Masters** in Computer Vision and Robotics

University of Burgundy [Le Creusot, France]

University of Girona [Girona, Spain]

Heriot Watt University [Edinburgh, United Kingdom]

120 ECTS Erasmus Mundus Master degree with focus on image processing techniques, computer vision, applied mathematics and linear algebra, autonomous and underwater robotics, realtime imaging and control systems, medical imaging.

2009–2013 **Bachelor** of Information Technology and Engineering

Slobomir P University, Bosnia and Herzegovina

240 ECTS for courses in software engineering, data structures and algorithms, networking systems and communications, operating system design and architecture, applied electronics, microprocessors and embedded systems, information security and cryptography.

experience

2014–Now **Braingaze**

Barcelona, Spain

Master thesis project

Developing a neural network classifier for detecting presence and type of ADHD disorder in patients, based on different behavior and eye tracking data. Testing performance of state of the art methods and proposing novel combined methods using sparse distributed representations and biologically inspired spiking neural networks.

2014–2014 **CIRS Underwater Vision and Robotics Lab**

Girona, Spain

Summer internship

Mainly dealing with sensory data processing, autonomous mapping and motion planning algorithms and detection of anomalies using underwater camera image processing (OpenCV). Main goal was developing autonomous system for solving mapping and localization tasks in both C++ and Python, using third party ROS libraries (octomap for mapping, cola2 AUV control architecture, etc).

2010–Now **Microsoft**

Bijeljina, Bosnia and Herzegovina

Microsoft Student Partner

Promotion of Microsoft development technologies through public speaking, event organization and attendance and participation in different types of competitions. Earned plenty of software development skills on .NET platform and gained a lot of experience in project-oriented development, teamwork and software lifecycle management.

2012–2013 **Tracking in Motion**

London, United Kingdom

Software developer

Development of ball tracking solutions, which include motion detection, ball path prediction, camera calibration and 3D reconstruction. Most of the time researching different image processing techniques to find the best approach to perform ball tracking in the most efficient, robust and accurate way. Working with multiple high-speed GigE industrial cameras.

awards

- 2014 **Verified certificate for course in Neural Dynamics** EPFL, Switzerland
Awarded verified certificate for attending and successfully completing course on edX.com online learning platform in the field of Neuronal Dynamics. Course was taught by Wulfram Gerstner from EPFL, Switzerland. Course content was focused on modeling computational aspects of neural activity in the brain by considering biophysical phenomena such as spike formation, neural plasticity, structure of synapses, dendrites and soma, etc.
www.edx.org/course/neuronal-dynamics-computational-epfl-bio465-1x
- 2013 **1st place in robotics competition** University of Girona, Spain
Participation as a member of a team from University of Girona in underwater autonomous robotics competition "euRathlon 2014" in La Spezia, Italy. Out of 5 disciplines our team competed in, my team won four 1st prizes and one 2nd prize.
www.eurathlon.eu
- 2013 **Postgraduate Scholarship** University of Burgundy, France
Awarded full scholarship for attending two-year Erasmus Mundus Master degree in Computer Vision and Robotics (VIBOT) on universities in France, Spain and United Kingdom.
www.vibot.org
- 2011–2013 **Microsoft Imagine Cup Worldwide Finalist** New York, Sydney, Saint Petersburg
Worldwide finals representative three successive years during bachelor degree on international student technology competition organized by Microsoft. Built GPU accelerated water flow simulator, remotely controlled non-intrusive smart house system and Kinect powered tactile feedback device for helping blind people move in indoor environments.
www.imaginecup.com
- 2008–2009 **National champion in Algorithms and data structures** Bijeljina, Bosnia and Herzegovina
Won the national competition of algorithms and data structures three years in a row. Participated in two International Olympiads of Informatics. Gained experience in algorithmic complexity estimation, optimization techniques and data structure usage for formally defined input/output and interactive tasks.
www.ioinformatics.org

communication skills

- 2015 **Oral Presentation** Microsoft .NET User Group, Bosnia and Herzegovina
Delivered a talk about general concepts of artificial intelligence research and recent trends in academic community. I've shown usage of explained principles in products currently on market (Microsoft Kinect, Leap Motion, Microsoft HoloLens, etc). I gave an overview of current initiatives of whole brain simulation, challenges involved and philosophical implications of creating true AI.
- 2012 **Oral Presentation** Microsoft Regional Conferences, Bosnia and Herzegovina
Presented modern UI interaction using Microsoft Kinect, Mindwave and Leap Motion to developers and IT experts on regional Microsoft conference MS Network 2012. Presented Kinect SDK platform to developers and IT experts on regional Microsoft conference MS Network 2011.
- 2011 **Presentation and workshop** Microsoft .NET User Group, Bosnia and Herzegovina
Presented project life cycle for participation in Microsoft Imagine Cup 2012 worldwide finals.

interests

professional: computational neuroscience, artificial intelligence, high-performance computing, distributed computing, knowledge representation, learning algorithms, software engineering

personal: tae kwon-do, music, table-tennis

publications

- 2013 **Contextually dependent visual representation of unknown object in real time**
XII International Scientific Symposium INFOTEH - JAHORINA 2013
- 2013 **Description of electro-mechanical camera carrier for tracking moving objects**
XII International Scientific Symposium INFOTEH - JAHORINA 2013
- 2012 **Solution concept of system for helping people with partial or complete blindness**
XI International Scientific Symposium INFOTEH - JAHORINA 2012

recommendations

- 2014 **Mathini Sellathurai (m.sellathurai@hw.ac.uk)** Heriot-Watt University, UK
Professor of Advanced Image Analysis course on Heriot-Watt University in Edinburgh, United Kingdom
- 2013 **Yohan Fougerolle (yohan.fougerolle@u-bourgogne.fr)** University of Burgundy, France
Professor of Software Engineering course on University of Burgundy in Le Creusot, France
- 2012 **Enis Sahinovic (eniss@microsoft.com)** Microsoft, Bosnia and Herzegovina
Development Platform Evangelist and Academic Lead for Microsoft Bosnia and Herzegovina
- 2012 **Djordje Babic (dj.babic@spu.ba)** Slobomir P University, Bosnia and Herzegovina
Dean of Faculty of Information Technology on Slobomir P University in Bijeljina, Bosnia and Herzegovina. Professor of Communication and Networking, Multimedia systems and Computer Security and Cryptography courses on Slobomir P University
- 2012 **Dragan Urosevic (draganu@turing.mi.sanu.ac.rs)** Slobomir P University, Bosnia
Professor of Numerical methods, Basics of programming and Programming languages courses on Slobomir P University in Bijeljina, Bosnia and Herzegovina. Member of Serbian Academy of Art and Sciences in Belgrade, Serbia