

PERSONAL INFORMATION

Iosif Birlescu

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Sex Male | Date of birth 22/11/1986 | Nationality romanian

POSITION

Junior researcher for X-PLORE project team

WORK EXPERIENCE

Oct. 2015-present

Junior researcher

CESTER research center at Technical University from Cluj-Napoca

- Research and development
- Modelling and simulating medical robotic structures

Dec. 2014 – May 2015

Professional internship for the Master's thesis

Medical University of Vienna, Department of Medical Radiation Physics and Oncology

- Developing a computational model to project retinal images onto a 3D virtual model of the eye.

Feb. 2011 – May 2011

Practical training for students (Optometry)

S.C. Optimed, Brasov Romania.

- optometric training such as: lens measuring, eye refraction measurements.

EDUCATION AND TRAINING

Oct. 2015 - present

PhD position in mechanical engineering

Technical University from Cluj-Napoca, Romania

- medical robotics
- modelling and simulating

Sept. 2013 – Jun. 2015

Biomedical Engineering Sciences (MSc)

University of Applied Sciences, Technikum Wien, Austria

- Developing skills in optics for medicine, image analysis, data processing
- Engineering (hardware and software design)
- Worked on an optics related project, involving a mechanical eye model.
- **Thesis:** "Projection of ophthalmic fundus images onto a three dimensional model of the eye"

Oct. 2008 – Jun. 2012

Optometry (BSc)

Transilvania University, Brasov Romania.

- Knowledge about optics, eye anatomy and eye physiology
- Basics of engineering for optical design
- **Thesis:** "Methods used in correction of amblyopia on preschool children"

Oct. 2005 – July 2007 **Automatic system and computer sciences (BSc- NOT GRADUATED)**
 Transilvania University, Brasov Romania.
 ▪ Computer sciences and mathematics.

Sept. 2001 – Jun. 2005 **Electronics (High School)**
 ▪ Basic of electronics and telecommunications.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communication skills Good communication skills gained during the years of study, due to the volume of project presentations
 Good communication regarding mathematics and physics skills due to student tutoring.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Programming languages:
 ▪ Matlab, Python, Labview, C

ADDITIONAL INFORMATION

Publications ▪ Needle insertion module for robotic assisted transperineal prostate biopsy, accepted for publication for MESROB 2016 Gratz, Austria