PERSONAL INFORMATION

Costin Florian Ciușdel

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Sex Male | Date of birth | Nationality Romanian

JOB APPLIED FOR
POSITION
STUDIES APPLIED FOR

WORK EXPERIENCE

May 2020 - present — **Researcher on European Project**

Project: "Parameterisation of large scale cancer models for personalised therapy of triple negative breast cancer" (PeCaN), ERA PerMed call of 2019

- Augmenting a numerical optimization workflow for large non-linear models with new features
- Software development and code-base maintenance

Business or sector Research

July 2019 – present — **Software Engineer**

Siemens Advanta, B-dul 15 Noiembrie nr. 78, 500097 Brașov, Romania

- Developing solutions for automating medical imaging-based measurements for cardiac applications
- Developing and researching Deep Learning Models (generative and discriminative modelling for vision tasks)
- Maintaining and adding new functionality to existing C++ codebases
- End-to-end application prototyping and integration into existing solutions

Business or sector IT/research

February 2017 – Feb. 2020 — **Researcher on European Project**

Project: "Information Technology: Future of Cancer" (ITFoC), FLAG-ERA call of 2016

- Software development of high-performance optimization workflows
- Numerical methods for mechanistic modelling
- Parameter fitting and optimization

Business or sector Research

July 2014 – July 2019 — **Intern**

Siemens Corporate Technology, 3A Eroilor Blvd, Brașov 500007, Romania

- Software implementation of numerical methods
- Mathematical modelling
- Machine Learning and Deep Learning
- Medical imaging solutions
- Control systems development for robotics

Business or sector IT/research

EDUCATION AND TRAINING

2019 – 2022 — **Doctoral studies in Systems Engineering**

Interdisciplinary Doctoral School, "Transilvania" University of Brașov

Thesis Name: "Deep Learning for diagnostic image analysis in cardiovascular disease"

2017 – 2019   **Master's Degree in Advanced Electrical Systems**

Department of Electrical Engineering and Applied Physics, "Transilvania" University of Brașov

- Power system modelling and operation
- Microgrids and renewable energy sources
- Control systems for power electronic devices

2013 – 2017   **Bachelor of Electrical Engineering**

Department of Automation and Applied Informatics, "Transilvania" University of Brașov

- System modelling and identification
- Control system synthesis and implementation
- Computer architecture and programming languages
- Electronics and electric drives

2009 – 2013   **High School Graduate**

"M. Cantacuzino" National College, Sinaia

- Mathematics and algorithms specialty
- Physics

PERSONAL SKILLS

Mother tongue(s)   Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

English row: C1 (Listening), C1 (Reading), B2 (Spoken interaction), B2 (Spoken production), B2 (Writing)

Communication skills
- good communication skills gained from working in a research team
- teaching experience gained from tutoring students in numerical methods and parallel processing laboratories

Organisational / managerial skills
- leadership skills gained by coordinating student didactic projects

Job-related skills
- adaptation to any specific workflow
- easy integration into teams

Digital competence

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

- programming languages: C/C++, Python, Matlab, CUDA
- good grasp of integrated development environments (IDEs: Visual Studio, VS Code) gained from software development projects
- machine learning algorithms (Deep Learning, CNN, RNN, GAN, VAE, etc.) and frameworks (e.g. Keras, Tensorflow, Pytorch)
- image processing know-how (using OpenCV)
- numerical methods (i.e. Finite Element Method)
- good command of office suite (MS Office) gained from writing papers and reports
- basic database query language and management system knowledge

Other skills
- digital electronics: microcontrollers, combinational and sequential logic
- power electronics
- signal processing

Driving licence   B

ADDITIONAL INFORMATION

Publications
- 6 ISI journal articles (4 as main author).
- 5 IEEE conference articles (3 as main author)

Patents
- Contributed to 4 US patents

Honours and awards
- First prize in 2015 faculty scientific sessions, with project named "N Body Simulator"
- Second prize in 2016 faculty scientific sessions, with project named "Control system for semi-autonomous mobile robot"
- Second prize in 2017 faculty scientific sessions, with project named "Control system for a two-wheeled inverted pendulum autonomous mobile robot"

ANNEXES