

Curriculum Vitae – January 2009

Personal data:

Rus, Carol

Born 27th August 1977 in Cluj-Napoca, Romania.

Contact info:

Email: carol.rus@gmail.com

Languages:

Romanian (mother tongue), English (fluent), French (working knowledge)

Education:

- **February 1st, 2006 - present, PhD student,**
Institute of Signal Processing, Tampere University of Technology, Tampere, Finland
Topic: Multimedia applications, image and video processing
- **August 1st, 2004 - July 31st, 2005, Marie Curie Fellowship,**
Tampere University of Technology, Tampere, Finland
Topic: Image Processing
- **November 1st, 2003, start for PhD studentship,**
Faculty of Electronics and Telecommunications, Technical University of Cluj-Napoca, Romania
Research topic: Digital Signal Processing, Digital Image Analysis
- **2002 – M.Sc. in Electronics and Telecommunications,**
Technical University of Cluj-Napoca, Romania
- **1996 – High School Diploma,**
Nicolae Balcescu General Education High School, Cluj-Napoca, Romania
Major: Computer Science

Work history:

- **October 2008 – present: senior software designer,** Ardites Oy Tampere, Finland
Achievements: Maemo platform, Qt framework, image and video processing
- **February, 2006 – September, 2008: researcher,**
Institute of Signal Processing, Tampere University of Technology, Finland
Achievements:
 - Currently working in development of a Linux application for analyzing ESGs in DVBH
 - Developed a Symbian C++ application for DVB-H rebroadcasting to WLAN helped by Nokia Research Center, Tampere
 - Developed a VLC player plugin for stereoscopic display
 - Research on particle movement tracking in video microscopy
- **August 2005 - January 2006: researcher – image processing,**
Digital Signal Processing Group, Technical University of Cluj-Napoca, Romania.
- **August, 2004 - July, 2005: researcher through a Marie Curie EU grant,**
TICSP, Institute of Signal Processing, Tampere University of Technology, Finland
Achievements:
 - Developed and implemented algorithms to convert a 2D paper map to a 3D digital map
- **November 2003 - July 2004: researcher,**
Digital Signal Processing Group, Technical University of Cluj-Napoca, Romania
Other responsibilities in the lab: system and network administration (Linux and Windows)
- **October 2002 - May 2003: software engineer,**
Tedelco srl, Cluj-Napoca, Romania. Skills acquired: object-oriented programming (Java, C++)
- **June 2000 - September 2000: summer job,**
Camp Berachah, WA, USA. Improved English language skills

Professional societies:

IEEE member since February 2008.

Programming experience:

- Languages: Symbian C++, C/C++, Java, Perl, Python, Matlab, LaTeX
- OS: Linux, Symbian S60 2nd, 3rd platform, Maemo platform, MS-DOS/Windows
- Databases: MySQL

Interests:

- TV related multimedia software/hardware
- Digital imaging, algorithms
- Networking, Linux OS
- 3D

Activities:

- **Publications** in international conferences with review process and IEEE transactions
- **Credits acquired at Tampere University of Technology** as a PhD student until January 2009: **70cr**
- **MSc thesis supervision** at Tampere University of Technology / Institute of Signal Processing: Mikko Vänninen - "Endosome movement tracking in video microscopy images", May-November 2006
- Academic year 2005 - 2006: responsible for **computer exercises** (hourly-paid position) - Course: SGN-2556 Pattern Recognition at Tampere University of Technologies
- October 6th – 8th, 2005: invited as a **lecturer** for the 5th Autumn School on Computational Intelligence and Information Technologies, Nis, Serbia&Monte Negro, Topic: Image Processing.
- August 30th, 2005: **presentation** at Swiss Federal Institute of Technology (ETH) – Institute of Geophysics, Zurich, Switzerland, Topic: Digital Elevation Models From Paper Physical Maps
- Academic year 2003 - 2004: responsible for **computer exercises** (hourly-paid position) - Subject: Image Processing (theoretical approach, Matlab programming, web programming) at Technical University of Cluj-Napoca, Romania
- June - July 2003: **trainee** in C#.net, SQL Server and Windows 2003 at Netlogiq srl, Cluj-Napoca, Romania
- 2002: **voluntary work** at Radio "Renasterea" Cluj-Napoca, Romania (technical department)