

Lucian CARATA

PERSONAL DATA

PLACE & DATE OF BIRTH: Iasi, Romania | May 3rd, 1986
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EDUCATION

- CURRENT** **Master of Science in Distributed Systems**, Technical University of Iasi, Romania
One semester Erasmus scholarship at the Vienna University of Technology,
Research in the Institute of Computer Graphics and Algorithms
First class degree expected in June 2011
- JUNE 2009** **Bachelor of Engineering in Information Technology**, Technical University of Iasi
Thesis: "Object Recognition in Video Sequences Using Interest Point Detection"
Advisor: Prof. Vasile Manta, Thesis Evaluation: 10/10
CGPA: 9.95/10; ranked *first* in class of 120 | Detailed list of exams on request
- JULY 2005** **Bacalaureat Degree**, Costache Negruzzi High school, Iasi
FINAL GRADE: 9.87/10

PUBLICATIONS

- Carata, L. and Manta, V. (2010). The influence of chromatic and luminance noise in real-time object recognition using scale-invariant descriptors. In *14th International Conference on System Theory and Control, Sinaia, Romania*.
- Carata, L. and Manta, V. (2009). Using feature detection algorithms in shape recovery and deformation measurement. In *Proceedings of the 5'th International Conference on Manufacturing Systems, The Bulletin of the Polytechnic Institute of Iasi, Machine Manufacturing*, vol. LV(LIX), Fasc.4, pp. 37-44.
- Carata, L. and Manta, V. (2009). Object recognition in video sequences using interest point detection. *The Bulletin of the Polytechnic Institute of Iasi, Automatic Control and Computer Engineering*, LV(LIX), Fasc.4:71-85.

INTERNSHIPS

- JUN-SEP 2010** | **Microsoft Intern** - Seattle, USA
Online Services Division, AdCenter Performance Team
Developing internal tools for automated performance analysis in large-scale distributed systems.
- JUN-SEP 2007** | **Intern at Code40** - Iasi, Romania
Microprojects
A pilot application for Holland Banks, enabling investors to finance small projects on-line. For my contributions to the project, I have received the *Green Eminence* award.

AWARDS AND SCHOLARSHIPS

- OCT 2010 Erasmus Scholarship (5 months) at the Vienna Institute of Technology, Austria - Institute of Computer Graphics and Algorithms.
Research focused on complex medical dataset visualization.
- MAY 2009 Student Scientific Communication Sessions (TUIASI University), award for the best paper describing an original solution
- OCT. 2008 A one-year special *Research Scholarship*, awarded by the Technical University of Iasi, for outstanding academic achievements
- OCT. 2008 ACM Southeastern Europe Programming Contest, Honorable Mention
- MAY 2008 Hard & Soft International Contest, 2nd Prize (team of four)
- OCT. 2006 IEEE Computer Society CHC₆₀ competition, Honorable Mention, finalist | *Team leader* (team of four)
- MAY 2006 Student Scientific Communication Sessions (TUIASI University), Special Mention
- MAY 2005 Doors to Diplomacy competition, 6th place, finalist. (team of three)
- MAY 2004 County Informatics Olympiad, 1st Mention
- MAY 2003 County Informatics Olympiad, 3rd Place
- 2002, 2003 Excellency Diploma from the Regional Center of Informatics for Young People Capable of Performance, Iasi
- MAY 1998 County Mathematics Olympiad, 1st Mention

UNDERGRADUATE RESEARCH WORK*

- 2008-2010 | **Object Recognition in Video Streams**
Project name: *Cytrus*
A modular, cross-platform graphic framework, aimed at (soft) real-time data acquisition and processing. My bachelor research work was built upon this framework, focusing on parallelization and high throughput for object detection in video streams.
- MAY-DEC 2009 | **REST Service Discovery**
Project name: *REdisc*
Investigating novel secure solutions for automated web service discovery and composition, using the ATOM protocol. Cross-domain discovery and federation are also addressed, and discovery is defined using existing web standards and IETF proposals.
- JAN-OCT 2008 | **Distributed Web Crawler**
Project name: *UTICrawl*
Experimental crawler with intelligent workload distribution among worker nodes and low-communication (hash-based, hierarchical) load balancing. The web crawler has an agent-based design and has proven to be scalable, while also tolerating network failures.
- JUL-OCT 2007 | **Code Collaboration with Version Control**
Project name: *SVNotify*

* Selected list

Developed an Eclipse plugin that allows code update notifications and collaboration among programmers in version controlled environments. Integrated with the SVN server.

TECHNICAL KNOWLEDGE

Programming:	Proeficient: C/C++ (including STL, Boost), C# (.NET), Java, Parallel programming (MPI, OpenMP), Matlab, XML (XSD, XSLT) Advanced: JavaScript, HTML, CSS, Perl, Bash Scripting
System admin:	Linux networking, SAMBA, Apache, Kernel basics, Distributed graphics and rendering setup
Technologies:	OpenGL (advanced), CUDA, ASP.NET (advanced), J2EE, Microsoft Reporting Services (advanced), Windows Communication Framework (advanced), JADE (intermediate), LabWindows/CVI (advanced), UML Tools, \LaTeX
Databases:	Microsoft SQL Server, Oracle, MySQL
Testing:	JUnit, NUnit, Visual Studio Unit Testing Framework
Version Control:	Git, Subversion, Microsoft Team Foundation Server (TFS)

ORGANIZATIONAL AND SOCIAL SKILLS

- As a member of the Microsoft Center from my faculty, I participate in organizing yearly events and academic presentations. I also have the responsibility of coordinating weekly extracurricular ASP.NET lectures and laboratories for interested faculty students.
- I have been elected as the student representative in the Computer Engineering Faculty Council, having responsibilities in signaling and resolving academic community or organizational issues at faculty level.
- Most of the projects in which I have been involved were carried out by small or medium-sized teams. I have always found teamwork a rewarding experience, and thus managed to communicate very well with people around me. As a team leader, I dealt with the mediation of divergent opinions, focusing the group's attention on the project's goal and encouraging positive competition.

LANGUAGES

ENGLISH:	C1 Level (speaking, listening, writing)
GERMAN:	B1 Level (speaking, listening, writing), "Zertifikat Deutsch" Certification
ROMANIAN:	Mother tongue (native)

OTHER INTERESTS AND ACTIVITIES

- Extracurricular:**
- Microsoft Student Partner since 2007. Teaching a weekly ASP.Net Laboratory in the Microsoft Center from the faculty (for 3 years). I also give regular technical presentations at community events.
 - Trainer for a one week intensive .NET Framework/ASP.NET course at Ditech SRL, Iasi (2009). The training was held for a Java/J2EE Senior Developer audience.

Leisure activities: | Tennis, Hiking, Photography

REFERENCES

Mr. Vasile MANTA, PhD
Professor, Technical University of Iasi. Faculty Dean
email: vmanta@cs.tuiasi.ro

Mr. Mihai Horia ZAHARIA, PhD
Associate Professor, Technical University of Iasi
email: mike@cs.tuiasi.ro