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 online. 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 CHC_{60} 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 adressed, 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.

* Selected list

Jul-Oct 2007	**Code Collaboration with Version Control** Project name: *SVNotify* 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
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Mr. Mihai Horia ZAHARIA, PhD
Associate Professor, Technical University of Iasi
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