Alexandru Octavian Duliu

Education

1991–2003 **High-School Degree**, *Deutsches Göthe Kolleg*, Bucharest, Romania.
Grade: 1.9

2003–2009 **Diploma in Informatics**, *Technische Universität München*, Germany.
Grade: 1.4

Diploma thesis

title *Interactive Tomographic Reconstruction for Freehand SPECT using the GPU*

supervisors Dr. Tobias Lasser, Dr. Thomas Schiwietz

description In this work we adapt existing algorithms used in emission tomography for many-core GPU architectures in order to improve performance and remove memory limitations.

grade 1.0

Projects

2007 **System Development Project (SEP)**, *Sun in the City*.
This project implements a simulation of the shadowing and illumination of an architectural model under outdoor conditions in order to try to maximize the natural illumination of a building.

2008 **Interdisciplinary Project (IDP)**, *Computer-assisted spectral quantification of disease progression of cutaneous T-cell lymphoma*.
This project aims to perform a spectral classification of various skin tissue types in order to better diagnose illnesses such as skin cancer.

Scholarships

April 2007–October 2008 Scholarship from the *Hanns Seidel Foundation* as part of the *Bildungsinländer* Scholarship program. This program is oriented towards foreign students at german universities, who have attained a german high-school degree in their native countries.

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Languages

Romanian	**native speaker**
German	**native speaker**
English	**fluent in speaking and writing**
French	**basic knowledge**
Italian	**basic knowledge**

Programming skills

languages	C, C++, Java
APIs	boost, OpenCV, OpenGL, CUDA

Experience

Vocational

July 2009–Mai 2010 **Software Engineer**, *Surgiceye GmbH*, Munich.
Developed and implemented reconstruction algorithms and clinical workflow for the emerging *FreehandSPECT* nuclear imaging technology. Further work included participation in clinical trials as well as continuous maintenance and improvement to the software framework.

December 2008–March 2009 **Student scientific assistant**, *Klinikum Rechts der Isar - Nucleam medical Clinic and Polyclinic*, Munich.
Perform clinical trials for the emerging *FreehandSPECT* nuclear imaging technology.

September 2006–March 2007 **Student scientific assistant**, *Technische Universität München – Faculty of Informatics - Chair for Computer Graphics and Visualization*, Munich.
Implementation of a method for fast mesh tetrahedrisation using a Finite Element Simulation framework.

Miscellaneous

August 2005–March 2006 **Student assistant**, *Universität der Bundeswehr – Fakultät für Wirtschafts- und Organisationswissenschaften (WOW)*, Munich.

2004–2005 **Student assistant**, *Technische Universität München – Faculty of Mathematics*, Munich.
iXquadrat mathematics exhibition of the Chair Geometry and Visualization

References

Prof. Dr. Dr. Jürgen Richter-Gebert, *Technische Universität München*.
Faculty of Mathematics – Chair for Geometry and Visualization

Prof. Dr. Dr. Rüdiger Westermann, *Technische Universität München*.
Faculty of Informatics – Chair for Computer Graphics and Visualization

Prof. Dr. Nassir Navab, *Technische Universität München*.
Faculty of Informatics – Chair for Computer Aided Medical Procedures and Augmented Reality

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Interests and Activities

Photography, CG, Painting, Music, Open-Source, Programming, Art

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