

Pierre Schroeder

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| Degree | Dipl.-Inf. Univ. |
| Current City | München, Germany |
| Birth location | Grand-Duchy of Luxembourg |
| Email | pierre.schroeder@in.tum.de |
| Homepage | http://profile.pierre-schroeder.eu/ |

Education

Tertiary

- 2007 – 2010 **Diploma, Computer Science**
Technische Universität München, Germany
Minor: Electrical Engineering
- 2004 – 2007 **Vordiplom, Computer Science**
Technische Universität München, Germany
Minor: Electrical Engineering

Secondary

- 1999 – 2004 **Baccalaureate**
Lycée Technique Michel Lucius, Grand-Duchy of Luxembourg
secondaire technique, division 'Technique Générale', 10th – 13th grade
- 2004 – 2007 Lycée Classique Robert Schuman, Grand-Duchy of Luxembourg
secondaire classique, division 'Moderne', 7th – 9th grade

Employment History

- 2007 – 2008 **Developer (part-time)**
Siemens AG, Munich
Development of Visual Inspection for Discrepancy
- 2006 – 2007 **Developer (part-time)**
Chair for Computer Aided Medical Procedures & Augmented Reality, T.U. München,
Munich
Development of an Augmented Reality Software for Discrepancy Inspection

Professional Skills

- Software engineering and design
- Creativity
- Easily integratable, self-demanding and contributing team member
- Excellent knowledge of C++, C++/CLI (.NET)
- Good knowledge of Matlab, Java, PHP, HTML, XML, SQL, VRML, LaTeX
- Good handling of productive software tools as Visual Studio, Office, Subversion, Jira, Doxygen and similar tools

Languages

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| German | native language |
| English | fluent |
| French | fluent |
| Luxembourgish | native language |

Publications

- Pierre Schroeder, Adrien Bartoli, Pierre Georgel, and Nassir Navab. Closed-Form Solutions to Multiple-View Homography Estimation. In *IEEE Workshkop on Motion and Video Computing (WMVC)*, January 2011
- Pierre Fite Georgel, Pierre Schroeder, and Nassir Navab. Navigation tools for viewing augmented cad models. *IEEE Computer Graphics and Applications*, November/December 2009
- Pierre Georgel, Pierre Schroeder, Selim Benhimane, Mirko Appel, and Nassir Navab. How to augment the second image? recovery of the translation scale in image to image registration. In *ISMAR '08: Proceedings of the 7th IEEE/ACM International Symposium on Mixed and Augmented Reality*, 2008
- Pierre Georgel, Pierre Schroeder, Selim Benhimane, Stefan Hinterstoisser, Mirko Appel, and Navab Nassir. An Industrial Augmented Reality Solution For Discrepancy Check . In *Proceedings of the 6th International Symposium on Mixed and Augmented Reality (ISMAR)*, 2007

Student Projects

- **Closed-Form Solutions to Computation of Multiple-View Homographies** (Diploma Thesis)
Supervision: Prof. Dr. Nassir Navab, Chair for Computer Aided Medical Procedures & Augmented Reality, T.U. München, Munich (D)
Internship at the Equipe de Recherche en Imagerie Médicale, Université d'Auvergne, Clermont-Ferrand (F) advised by Prof. Dr. Adrien Bartoli
- **Acceleration and Application of a Face Analysis System based on GPU based computing** (Interdisciplinary Project)
Supervision: Dipl.-Ing. Ronald Müller, Institute for Human-Machine-Communication, T.U. München, Munich (D)
The result was a flexible and extendable math-library for the MMER-Framework, easy to use for non-computer-scientists (electrical engineers), yet powerful as large computations could be performed on the GPU
- **Leading Yourself and Others** (Interdisciplinary Seminar)
Supervision: Sandra Roth, BMW Group, Knorrstr. 147, 80788 Munich, Germany

Referees

Dr. Mirko Appel

Siemens AG, Corporate Technology, CT PP 5
Otto-Hahn-Ring 6, 81739 München, Germany

Prof. Dr. Adrien Bartoli

Equipe de Recherche en Imagerie Médicale, Université d'Auvergne, Clermont-Ferrand
ERIM EA 3295, 28 Place Henri Dunant, BP 38, 63001 CLERMONT-FERRAND CEDEX, France

Pierre Georgel, M. Sc.

Chair for Computer Aided Medical Procedures & Augmented Reality, T. U. München
Institut für Informatik I16, Technische Universität München, Boltzmannstr. 3, 85748 Garching bei München, Germany

Dr. Ronald Müller

ALTRAN Technologies
Bernhard-Wicki-Str. 3, 80636 München, Germany

Prof. Dr. Nassir Navab

Chair for Computer Aided Medical Procedures & Augmented Reality, T. U. München
Institut für Informatik I16, Technische Universität München, Boltzmannstr. 3, 85748 Garching bei München, Germany

Research and Scientific Interests

Computer Vision, Robotics, Software Design, Artificial Intelligence

Interests and Activities

Making music (French Horn, E-Bass, Jazz), motorcycling, scuba-diving (CMAS**), skiing and snowboarding

München, October 16, 2010