

[REDACTED]

## Résumé

### OBJECTIVE

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To conduct research on exascale query processing and cloud computing in a team of highly skilled and motivated individuals.

### CONTACT

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Address [REDACTED]  
Tel. + [REDACTED]  
Mail [REDACTED]@[REDACTED]

### EDUCATION

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Doctoral Candidate in Computer Science  
Swiss Federal Institute of Technology Zurich ("ETH Zurich"), Switzerland  
Graduation scheduled for Q1/Q2, 2012

Master of Engineering in Computer Science  
Cornell University, Ithaca, NY, USA, 2007  
Cumulative weighted degree GPA 4.0857 on a 1 to 4 scale (A+ counts as 4.3)

Diploma of Software Engineering  
University of Applied Sciences at Hagenberg ("FH Hagenberg"), Austria, 2005  
Cumulative weighted degree GPA 1.13 on a 5 to 1 scale  
Graduated with highest honours, best of class

### EMPLOYMENT HISTORY

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	<i>September, 2007 to Present</i>
Position	University Assistant and Doctoral Candidate at ETH Zurich, Switzerland
Supervisors	Prof. Dr. Donald Kossman, Prof. Dr. Gustavo Alonso
	<i>June, 2009 to August, 2009</i>
Position	Summer Internship at Microsoft, SQL Server Core, Redmond, USA
Supervisor	Dr. César Galindo-Legaria
	<i>August, 2005 to June, 2006</i>
Position	Software Engineer at Philotech GmbH, Unterhaching, Germany
Supervisors	LtCol ret. GAF Ingo Balszun, Dr. Norbert Oswald
	<i>August, 2004 to February, 2005</i>
Position	Researcher and Software Engineer at EADS Military Aircraft, Ottobrunn, Germany
Supervisor	Dr. Norbert Oswald

### RESEARCH EXPERIENCE

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Project	E-Cast / Rubberband	<i>June, 2010 to Present</i>
Advisors	Prof. Donald Kossman, ETH Zurich; Prof. Gustavo Alonso, ETH Zurich	
Summary	A multicast protocol and middleware framework for elastic, fault-tolerant, and strongly consistent cloud storage	
Keywords	cloud computing, multicast, fault tolerance, strong consistency	

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Résumé

Project Crescando *September, 2007 to Present*  
Advisor Prof. Donald Kossman, ETH Zurich; Prof. Gustavo Alonso, ETH Zurich  
Summary A distributed relational table implementation based on cooperative main-memory scans and predicate indexing  
Keywords main-memory query processing, parallel databases, predicate indexing

Project Microsoft SQL Server *June, 2009 to August, 2009*  
Advisor Dr. César Galindo-Legaria, Microsoft  
Summary Bottom-up join enumeration and bloom join heuristics for large query plans  
Keywords join enumeration, bloom join

Project Games and Simulations *February, 2007 to December, 2007*  
Advisor Prof. Johannes Gehrke, Cornell University  
Summary Optimistic concurrency control in networked virtual environments and massive multiplayer online games  
Keywords distributed transactions, optimistic concurrency control

Project DARPA Grand Challenge: Urban Challenge *August, 2006 to May, 2007*  
Advisor Prof. Daniel P. Huttenlocher, Cornell University  
Summary Self-driving vehicles in urban terrain  
Keywords sensor integration, knowledge databases, real-time middleware

Project Intelligent Agents for Real-Time Avionic Systems *August, 2004 to June, 2006*  
Advisors Dr. Norbert Oswald, EADS; Prof. Karin Pröll, FH-Hagenberg  
Summary Intelligent, real-time, multi-agent-systems for unmanned air vehicles  
Keywords real-time scheduling, expert systems, CORBA

**PUBLICATIONS**

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[REDACTED], Gustavo Alonso, Donald Kossman: E-Cast: Elastic Multicast. Technical Report. ETH Zurich, TR-719. February, 2011

Georgios Giannikis, [REDACTED] Jeremy Meyer, Gustavo Alonso, Dietmar Fauser, Donald Kossman: Crescando (Demo Paper). SIGMOD 2010. Indianapolis, USA, 2010

[REDACTED], Georgios Giannikis, Gustavo Alonso, Dietmar Fauser, Donald Kossman: Predictable Performance for Unpredictable Workloads. VLDB 2009, Lyon, France

Nitin Gupta, Alan Demers, Johannes Gehrke, [REDACTED] Walker White: Scalability for Virtual Worlds (Short Paper). ICDE 2009, Shanghai, China

[REDACTED]: Toward Intelligent Agents for Real-Time Avionic Systems. Diploma Thesis. FH Hagenberg, 2005

**LANGUAGE SKILLS**

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German (native)  
English (quasi-native)  
French (intermediate)

**ASSOCIATIONS AND INTERESTS**

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Member of the ACM, the IEEE, the IEEE Computer Society, and the GI (German computer society)  
Contributor to various open-source projects, including the popular game *Warsow* ([www.warsow.net](http://www.warsow.net))  
Lively interest in world politics, astrophysics, and analytical philosophy  
Loves travelling the world and discovering new foods and cultures  
Enjoys snowboarding, golf, tennis, table tennis, and snooker