

Rainer K. L. Trummer

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Education

Department of Scientific Computing
University of Salzburg, Austria

Kammer der Gewerblichen Wirtschaft
für Salzburg, Austria

Wirtschaftsförderungsinstitut der
Handelskammer Salzburg

Dipl.-Ing., 2005 (M.S. in Computer Science
with major field Scientific Computing)

Meister, 1991 (Master Craftsman's Diploma
in Electromechanical Engineering)

Werkmeister, 1990 (Foreman's Diploma
in Industrial Electronics)

Skills/Experience

- *Designed* and *built* the JAviator high-payload quadrotor helicopter aimed to serve as flying software laboratory.
- *Invited* and *implemented* a high-performance hardware integer divider designed for ASICs and micro-controllers.
- *Designed* and *implemented* several basic micro-controller components on the gate level (3000+ lines of Verilog).
- *Established* an appropriate methodology for simulating data dependency using a parallel computer cluster.
- *Programmed* various time-critical algorithms for multi-word and parallel computation (5000+ lines of C/C++).
- *Worked* for several years in the production, final inspection, and service of medical and industrial electronics.
- *Carried* direct responsibility for the entire technical equipment of a private hospital as technical director.
- *Installed, serviced, and repaired* high-power laser facilities (up to 10 kW) used for steel cutting and welding.
- *Languages:* German (mother tongue) and English.

Employment History

10/2005—Present	University of Salzburg, Salzburg, Austria	Ph.D. Student
07/2003—09/2005	Juwelier R&A Falkensteiner, Salzburg, Austria	Technical Assistant
08/2002—06/2003	Duke University, Durham, North Carolina	Exchange Student
10/1994—07/2002	Tiroler Franziskanerprovinz, Salzburg, Austria	Software Developer
07/1993—09/1994	KH der Barmherzigen Brüder, Salzburg, Austria	Technical Director
10/1992—05/1993	LASERTECHNIK GmbH, Eugendorf, Austria	Electronic Technician
05/1989—09/1992	SANITAS Medizintechnik GmbH, Wals, Austria	Medical Technician
12/1987—04/1989	HALE Electronic GmbH, Salzburg, Austria	Electronic Technician
04/1987—11/1987	Schwarzenbergkaserne, Siezenheim, Austria	Military Service
08/1983—05/1987	HALE Electronic GmbH, Salzburg, Austria	Apprenticeship

Selected Publications

S.S. Craciunas, C.M. Kirsch, H. Röck,
and R. Trummer.

The JAviator: A High-Payload Quadrotor UAV with High-Level Programming Capabilities. In *Proc. AIAA Guidance, Navigation, and Control Conference (GNC)*. Honolulu, Hawaii, August 2008.

J. Auerbach, D.F. Bacon, D.T. Iercan,
C.M. Kirsch, V.T. Rajan, H. Röck,
and R. Trummer.

Low-Latency Time-portable Real-time Programming with Exotasks. *ACM Transactions on Embedded Computing Systems (TECS)*, 8(2):1–48, January 2009.