

John M. DAMASCHKE

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OBJECTIVE: To contribute in the manufacturing world using my engineering expertise in Integrated Circuits and Measurement Equipment. I am looking for continued learning and new challenges, and am open to relocation and travel.

CAREER EXPERIENCES:

Mixed-Signal Test Development Engineer **Austria Micro Systems AG**, Unterpremstaetten, Austria
Developed hard- and software for **test solutions** of **mixed signal integrated circuits** for using **LTX Synchromaster** und **Fusion Automated Test Equipment**. Supported products, **improved yield**, e.g. from 54% to 99%, and **reduced test time**, e.g. from 1h15 to 12min on a high volume product. 6/04-present

Sabbatical Worked several projects as an Engineering Consultant designing **dc-dc converters** for low-power, low-voltage applications, etc., USA; Enrolled at Latinoamerica Spanish Academy, Guatemala. 12/02-5/04

Manufacturing Development Engineer **Agilent Technologies**, Rohnert Park, CA, USA
Solved engineering issues for **Network Analysis** products; improved testing processes and **re-designed analog and digital circuit boards**; developed and improved testing processes; **Trained** new employees. 10/00-11/02

Engineering Instructor **Agilent Technologies**, Penang, Malaysia
Developed and **taught Power Supply** class to engineers. 11/01-1/02

Research and Teaching Assistant **University of Victoria**, Victoria, BC, Canada
Developed software in **microwave research lab** for numerical analysis of RF structures; designed and measured electronics and RF hardware (e.g. **dc-dc power converters** and RF amplifiers); **taught** laboratories and tutorials. 10/93-9/00

EDUCATION:

M. A. Sc. Thesis **University of Victoria**, Victoria, BC, Canada
("Diplomarbeit")
Developed new time-domain numerical analysis tools for microwave structures based on the Transmission Line Matrix method (TLM). 10/93-5/94

Engineering Project **University of Manchester**, Manchester, UK
("Studienarbeit")
Designed, measured and optimized a low-power **dc-dc converter** for extremely low voltages (0.1 to 0.3 volts). 4/93-9/93

M. A. Sc. Elec. Eng. **Technische Universität Hamburg-Harburg**, Hamburg, Germany
("Dipl.-Ing. Elektrotechnik")
Specialized in Communications, RF Engineering. 9/88-5/94

SKILLS:

Test Program Development in **LTX Cadence (Synchromaster and Fusion Automated Test Equipment)**

Computer Skills in Fortran, Pascal, Basic, etc. under Windows and Unix

Expert knowledge of **Network Analyzers** and other **measurement equipment** from system level down to components (Logic Analyzer, Oscilloscope, Spectrum Analyzer...).

Experience with **production issues** as **DFT, DFM, quality assurance**, etc.; from the IC side, e.g. **yield improvement, test time reduction**, to the system side e.g. part evaluations, board re-designs, performance tests.

Printed circuit design (Mentor, EEDP) and **microwave** engineering.

Fast learner and excellent **problem solver**.

Teacher, mentor and tutor to colleagues and customers.

Bilingual (English, German); Spanish; basic Chinese

PUBLICATIONS (as main or sole author):

J. M. Damaschke, S. Amari, J. Bornemann, "Fast and accurate mode-spectrum analysis of waveguide structures using a new set of edge-conditioned basis functions", *International Journal of RF and Microwave CAD*, May '98.

John M. Damaschke, "Design of a low-input-voltage converter for thermoelectric generator", *IEEE Transactions on Industry Applications*, Sep./Oct. '97.

In addition, publications as co-author and on conferences.

HONOURS & ACTIVITIES:

Tour Guide for Suntrek Tours Inc., Rohnert Park, CA, USA 5/03-11/03
Certified Masseur at Physical Health Center Bad Eggenberg, Austria
12/02-2/03

Volunteer trip leader with the Alpine Club of Canada and
National Sierra Club. 5/96-6/02

Graduate Teaching Fellowship. 9/94-9/00

Teaching English to Speakers of Other Languages certificate 3/99

Other Interests: Traveling, mountaineering, languages

REFERENCES: Excellent references available upon request

(last updated: 3/07)