

# Gregor Altvater

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**Objective:** Signal processing or communications systems work focused on cutting-edge technologies with a global company that values creative solutions.

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<b>Education</b>	<b>Master of Science in Electrical Engineering</b> <b>University of Michigan</b> Major: Signal Processing, Minor: Control Systems Overall GPA: A-	December 2000
	<b>Bachelor of Electrical Engineering</b> <b>Georgia Institute of Technology</b> Area of concentration in Computer Systems Overall GPA: <b>3.9</b> / 4.0, Major GPA: 3.8 /4.0	August 1999
	<b>Technische Universität München</b> , Munich, Germany Exchange student in an electrical engineering program with Georgia Tech.	Oct. 1997 - Apr. 1998
<b>Work Experience</b>	<b>EPCOS AG</b> , Munich, Germany	Feb. 2001 - Present
	Product development engineer of surface acoustic wave (SAW) radio frequency (RF) devices for mobile communications <ul style="list-style-type: none"><li>• Design of all 850/1900MHz (GSM and CDMA) dual band development projects at EPCOS with emphasis on manufacturing.</li><li>• Management of time critical projects ranging from R&amp;D phase through to mass production.</li><li>• Design and implementation of prototypes for customer sampling.</li><li>• Support of U.S. and Singapore design centers, marketing, customers, and fabrication.</li><li>• Responsible for yield improvements and quality control.</li><li>• Key customer account technical manager.</li></ul>	
	<b>International Paper Company</b> , Natchez, Mississippi (alternating quarters in cooperation with Georgia Tech)	Sep. 1995 - Aug. 1996
	Cooperative work student in the Capital Projects group <ul style="list-style-type: none"><li>• Planned, designed, procured materials for flow system modification projects.</li><li>• Assisted in design of variable speed drive and mixer installation projects.</li></ul>	
	Cooperative student in Process and Information Technology group <ul style="list-style-type: none"><li>• Involved in the setup of mill-wide process database and development of client-server application software.</li></ul>	Sep. 1996 - Jun. 1998

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**Academic  
and Teaching  
Experience**

Graduate Research Assistant, University of Michigan, Biocomputing Laboratory

- Recognition of hemodynamic collapse in ventricular arrhythmias from EGM and blood pressure signals.
- Application of Karhunen-Loewe transforms for classification of ventricular arrhythmias.
- Gender differentiation through wavelet decomposition on the T-wave.
- Classification of effects using the slope of the ventricular repolarization waveform.

Graduate Teaching Assistant, University of Michigan , Digital Design

Research Assistant, Georgia Institute of Technology, Future Computing Environments

- Differential signal processing with PIC 16CXX embedded microcontrollers for intelligent floor tracking.

Robotics team design of a one degree of freedom force-reflecting master-slave teleoperator.

Publication: “Amplitude Alteration between Sinus Rhythm and Ventricular Tachyarrhythmia in Surface and Intracardiac Leads in Human Subjects”, *Conference Proceedings of Computers in Cardiology*, September 2000.

Fluent in German and Hungarian language and culture.

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**Computer  
Experience**

Java, C, Matlab , APLAC RF system simulation, SONNET electromagnetic simulation, various SAW acoustic simulation packages, AutoCAD, MIPS Assembly, MPASM Assembly, VHDL, HTML, Firmware. Unix, Linux, VMS, Windows systems, Mac OS.

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**Awards and  
Activities**

University of Michigan EECS Departmental Ph.D. Fellowship Student

Siebel training – “Enterprise Selling Process”

Siemens Student Leadership/Communications Colloquium

Georgia Institute of Technology swim club

*References available upon request*