DR. MARTIN BRUCHERSEIFER

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Cell 404-213-2646
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SUMMARY

Project Manager directing multifunctional engineering teams in fast-paced, goal oriented environment. Highly successful in transfer from prototype to oversees manufacturing. Leading development of test equipment and manufacturing traceability

Program Manager • Project Manager • Multifunctional Team Leader • Development Engineering • Test Engineering • Six Sigma • Product Test Automation • Manufacturing Process Flow • Traceability • Labview

EXPERIENCE

SIEMENS INDUSTRY INC., Norcross Georgia
Senior Engineer – Consulting Project Engineer **04/2006 – Present**

Managing product development projects with multifunctional engineering teams including project funded by Department of Energy over $1.6M. Overseeing capital budget exceeding $3M.

Decreased product development time from one year to seven months from project agreement to production, including FCC and UL certification ($0.75M). Reduced production cost by 20% from original target.

Managed equipment transfer for outsourcing production to contract manufacturer on schedule and under budget.

Leader of test equipment technical design team that allowed Siemens to be first to market, ahead of schedule. Condensed new test equipment development project from two years, to less than one year. Specified and purchased equipment for over $1M.

Developed hardware and software for multiple production test machines meeting UL specifications and allowing remote control via internet. Installed and verified equipment in the U.S. and oversees.

Specified traceability system for production sites tracking component level to final product allowing instant access to production and test data resulting in first pass yield over 99%.

Member of the team winning the “Global Building Technology TOP+ Award” 2009.

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, Georgia
Research Scientist II **12/2004 – 03/2006**

Managed Focused Ion Beam group as part of newly created Nanotechnology Center. Consulted in manufacturing nano-devices and FIB supported analysis. Supervised graduate students and postdoctoral researchers. Established and coordinated training procedures, laboratory schedules, and equipment maintenance.

Postdoctoral Fellow **11/2003 – 11/2004**

Built first of its kind measurement system combining scanning probe microscopy and far infrared spectroscopy for biochemical applications. Attenuated Total Reflection Spectroscopy.

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey
Postdoctoral Research Assistant **04/2002 – 10/2003**

Conducted research on free-space communication in the terahertz frequency range.

APPLIED MICRO- AND OPTOELECTRONICS (AMO GmbH), Aachen, Germany
Software / Hardware Consultant **06/1998 – 03/2002**

Developed and implemented algorithms with graphical user interface for PC based data acquisition system.

Dr. Martin Brucherseifer Cell: 404-213-2646 martin@brucherseifer.com

PROFESSIONAL TRAINING

DESIGN FOR SIX SIGMA – Green Belt **2008**
Certified by *Breakthrough Management Group International (www.bmgi.com)*

EDUCATION

DOCTOR OF ENGINEERING SCIENCE **1997 – 2002**
Rheinisch Westfälische Technische Hochschule, Aachen, Germany

Time Resolved Terahertz Spectroscopy. First Terahertz based Label-Free analysis of DNA binding state; 2D imaging and 3D tomography for quality analysis; High Sensitive Characterization Technique of Thin Film Dielectrics and High Temperature Superconductors; Electro-Optic Sampling; Optical Pump-Probe with Ultra-Short Time Resolution; Fiber Coupled Systems for Femto-Second Laser Pulses

DIPLOMA OF ELECTRICAL ENGINEERING **1989 – 1997**
Rheinisch Westfälische Technische Hochschule, Aachen, Germany

Semiconductor Devices and Electronics, Solid State Physics, Opto-Electronics, Semiconductor Technology.

SKILLS

Advanced programming in Labview interfacing with various hardware equipment and database systems for production environment

Electric and electronic hardware design

Electronic measurement techniques including various noise reduction methods

Administration of Windows PCs and PXI computers for fully automated process controls

Software: Labview, Microsoft Office, MS Project, Minitab, Origin, Corel Suite, MatLab

German and English fluent, Spanish and French proficient

PATENTS

Method for detecting polynucleotide sequences, P. Haring Bolivar, M. Nagel, H. Kurz, M. Brucherseifer, A. Bosserhoff and R. Büttner, PCT/DE 01/02408 (2002)

System controller for integrated lighting control panels, W. King, M. Brucherseifer, S. Marellapudi, P. Terricciano, J. Deboer, PCT/US2007/018130 (2008)

PUBLICATIONS PRESENTATIONS

More than ten publications and presentations in scientific journals and international conferences. A full list is available on request or on *www.brucherseifer.com*.

Label-free probing of the binding state of DNA by time-domain terahertz sensing, Appl. Phys. Lett. 77, 4049 (2000)

Low-temperature THz imaging of thin high-temperature superconductor films, Physica C, 399(1&2), 53 (2003)

Measurement of the Dielectric Constant and Loss Tangent of High Dielectric Constant Materials at Terahertz Frequencies, IEEE Trans. on Microw. Theory and Techn. 51, 1062, (2003)

Combined in Situ Atomic Force Microscopy-Infrared-Attenuated Total Reflection Spectroscopy, Anal. Chem. 79, 8803 (2007)

THz spectroscopy with ultrahigh sensitivity, Conf. on Lasers and Electro-Optics, (2000)

Low-density optical pump - THz probe analysis of high-temperature superconductors, Ultrafast Phenomena (2002)

AFFILIATIONS

Member of IEEE