

BRAD J. NEIMAN

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OBJECTIVE

Product Manager/ Program Manager/ Field Sales Engineer/ Field Application Engineer

HIGHLIGHT OF QUALIFICATIONS

- Over 10 years experience (start-ups and large corporations) in MEMS-based products including: application support – working with customers and cross-functional teams in developing solutions to technical problems – design, development and project management. Products including pressure sensors, accelerometers and RF switches for markets including: Healthcare, Mobile Communications, Automotive and Industrial.
- Customer-oriented, analytical, and innovative with multi-disciplinary problem-solving skills.
- Leader of cross-functional teams developing and customer integrating MEMS-based products.

SKILLS SUMMARY

Sales Engineering

- Business opportunity development
- Manager of technical relationship with customers – anticipating their needs vs. wants
- Technical trainer
- Technical interface between customer and factory

Product Development

- Product roadmap development
- Managed of prototype development and debugging
- Project Manager of cross-functional teams – multiple projects simultaneously
- Coursework in Product Development, Product Management and Technology Commercialization

EXPERIENCE

Oct 2007 – Aug 2011

[GE Measurement & Control Solutions](#) (formerly NovaSensor) Fremont, CA
MEMS Application and Project Engineer, Healthcare and Industrial

- Project Manager – including managing relationship with key customers, managed process for providing prototype samples to customers.
- Provided input to product roadmaps using knowledge gained from working with various customers.
- Project Manager and champion for Catheter Tip Pressure New Product Development (NPD) – new product platform with potential of over \$50MM/year and released two Customized Products with 3 year potential of \$12MM. Currently managing the release of three Customized Products with 3 year potential of \$7.7MM.
- Managing costing workflow for new MEMS NPD and product customization opportunities, globally. Gathered cross-functional information for costing out five NPD and 20 custom product opportunities. Implemented new, lean, workflow process.
- Led cross-functional teams in resolving four major customer issues with our products (two for gaining new business).
- Hosted five customer visits, visited four customers and company representative at tradeshow booth.
- Trained Sales, Customer Care and Engineers on MEMS Product Line.
- Filed two patents with USPTO for catheter tip pressure design and manufacturing.

Apr 2006 – July 2007

[AdaptivEnergy, LLC](#) (formerly PAR Technologies, LLC) Hampton, VA
Manufacturing Development Engineer

- Project Engineer and liaison for transferring actuator technology to Fortune 500 company for high-volume manufacturing.
- Led project that developed the process technology for laminating layers to make stress-biased PZT-based actuator using Design of Experiments (DoE) in [JMP](#) – reducing the cycle time by 87%.
- Project leader for investigating and developing manufacturing test system to screen out potential reliability issues in actuators.
- Developed documentation, implemented process controls and statistically analyzed performance metrics using [JMP](#) for the manufacturing of stress-biased PZT actuators and energy harvesters.

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- Feb 2005 – Oct 2005** [wiSpry, Inc.](#) **Irvine, CA**
Consulting MEMS Product Engineer
- Project leader for developing RF-MEMS switches for high-volume assembly processes. Analyzed root-cause of failure by statistical analysis, using [JMP](#), of DoE to determine impact of the fabrication process and design on MEMS device performance.
 - Developed methods and procedures for measuring topography of MEMS structures on die and 8” wafers using [WYKO NT8000](#) with SureVision.
 - Responsible for product assembly, test and sending customer samples of RF-MEMS switches.
- Oct 2004 – Jan 2005** [Rohm and Haas Electronic Materials \(now Dow Chemical\)](#) **Blacksburg, VA**
Consulting MEMS Device Physics Engineer
- Developed and reported on elemental analytical model (using [MATLAB SIMULINK](#)) for analyzing the design performance of an innovative power MEMS devices for a DARPA feasibility project.
- Jun 1998 – Dec 2001** [Analog Devices, Inc.](#) **Cambridge, MA**
Wafer Fab Process Engineer
- Led cross-functional team that isolated the source of a sub-parts per million MEMS mechanical failure due to three returns for automotive safety – resolving customers’ concerns.
 - Analyzed, modeled, reported and presented design trade-offs of optical MEMS prototypes -- used as a design tool for contracted customers and our devices (using [MATLAB](#) and [Mathematica](#)).
 - Quadrupled throughput and dramatically increased yield of critical MEMS process – transferred novel process for depositing LPCVD Poly-Si for the sensor layer of the MEMS accelerometer, using DoE and analysis with [JMP](#). Led a team of 20 technicians that restored full functionality to entire BiCMOS MEMS fabrication line from two catastrophic events, within two shifts.

CO-OP AND INTERN EXPERIENCES

- Jan 2003 – Aug 2003** [Fraunhofer Institute](#) **Aachen, Germany**
Design and Control Systems Engineer
- Implemented the control system of ultra-precision, 5-Axis Polishing Module, using [MATLAB SIMULINK](#) interfacing with [dSPACE](#). Project team leader responsible for designing (using Solid Designer) and fabricating a micro-assembly demonstrator of a Micro Electro-Optical Connector.
- Jun 1995 – Aug 1996** [Central Intelligence Agency](#) **Washington, DC**
Weapon Systems Analyst and Network Engineer
- Developed a weapon systems database website for use by the intelligence community, using Microsoft Access – Nominated for Exceptional Performance Award. Top Secret Clearance (inactive).
- Jan 1995 – May 1995** [Brookhaven National Laboratory](#) **Upton, NY**
Research Technician, Center for Accelerator Physics
- Integrated, characterized and calibrated systems for operating experiments using a high-energy electron beam. Systems included a ultra-high vacuum system and 10-nm precision, multi-axis, motion control system of micro-stepping motors using UNIDEX control system.

EDUCATION

- Sept 2003 – May 2004** [Boston University](#) **Boston, MA**
- Ph.D. student in [Manufacturing Engineering](#). Specialty: Development and commercialization of MEMS-based products
- Jan 2002 – Sept 2003** [Boston University](#) **Boston, MA**
- M.S. in [Manufacturing Engineering](#), September 2003. Specialty: Design, Fabrication and Manufacturing of Micro Opto-electromechanical Systems. Research Project: *Design and Fabrication of a MEMS Tunable Optical Filter with Variable Finesse for Telecom Applications*.
- Aug 1994 – May 1998** [Pennsylvania State University](#) **University Park, PA**
- B.S. in [Engineering Science](#) (integrates electrical, materials and mechanical engineering), Honors, May 1998. Specialty: Microdevices and Microfabrication. Thesis: *Design and Fab. of a MEMS Accelerometer using Thin-Film PZT as Sensing Medium*; Award: University Scholars Program.