CURRICULUM VITAE - JASON P. EATON - P.E.

ADDRESS:

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EDUCATION:

Bachelor of Science in Mechanical Engineering (December 2000) West Virginia University, Morgantown, WV Summa Cum Laude G.P.A. 4.0 / 4.0

PROFESSIONAL LICENSURE:

Registered Professional Engineer in the state of Pennsylvania PE#073173

ENGINEERING, DESIGN, AND BUSINESS SKILLS:

Medical / Consumer product design Thermoplastic and LIM Part Design Textile product design and manufacturing Medical adhesives, plastic joining Automation experience Prototyping methods and technologies Custom cable design and manufacturing Electromechanical component selection Electromechanical packaging, shielding, etc. Respiratory physiology, modeling, and testing Ultrasonic and laser welding experience Design of sealed and ruggedized electronics GD&T training and experience Pro-E Wildfire, concept-level modeling skills ANSYS Finite Element Analysis CFDesign Computational Fluid Dynamics Programming: LabVIEW – basic skill Manufacturing process development Interpretation of Standards and Regulations Intellectual Property protection Hands-on mechanical prototyping and testing Design for human factors, comfort, ergonomics Design for Six Sigma – Level 2 Acoustic design and measurement expertise

PROFESSIONAL EXPERIENCE:

July 2012 - present

Principal Mechanical Engineer – New Product Development – Supplied Air Respirators MSA Safety, Cranberry Township, PA

- Project sub-team lead for design of Electronics Module and Battery Modules for G1 Self-Contained Breathing Apparatus for firefighting applications
- Designed ruggedized and sealed electronics enclosures to exceed IP67, as well as rigorous thermal and mechanical shocks and loads
- Designed intrinsically safe and impact-resistant alkaline battery enclosure with triplicated electrical contacts continuity maintained in 2m drop testing
- Designed custom intrinsically-safe high-reliability sealed connector for blind and rotational mating.
- Responsible for coordinating system-level integration of designs with other product subsystems
- Responsible for acoustic design and testing of piezoelectric alarm device and acoustic resonator
- Led electromechanical integration of PCBA and auxiliary components to mechanical system
- Responsible for design for manufacturability, coordinated tooling, fixturing, and test equipment for production
- Completed design verification and validation, including support for testing at independent laboratories
- Oversaw mold tool qualifications, including first shots, texture qualifications, PPAP, etc
- Interact with fire service professionals, sales, distributors, to create, improve, and modify products
- Support product quality improvements, resolve manufacturing issues

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PROFESSIONAL EXPERIENCE (CONTINUED):

September 2004 – July 2012

Senior Mechanical Engineer – New Product Development – Mother and Child Care Dilling Healthcare (formarly Respirence) Monroeville, RA

Philips Healthcare (formerly Respironics), Monroeville, PA

- Lead project engineer on Neonatal CPAP Interface project
- Provided engineering support, product conceptualization, and independent design review to Philips/Respironics Patient Interface New Product Development group through 2010
- Mechanical Design of SmartMonitor3 Infant Apnea Monitor
 - Responsible for mechanical engineering of enclosures, integrated user interface, alarm system, custom cables and connections, carry case, thermal design, design for manufacturability and service, EMI shielding, standards interpretation, verification and validation.
 - Acting project manager for major subsystems of the product design
- Coordinated design work, documentation, testing, manufacturing across four global locations.
- Thermal and mechanical design of LED phototherapy device, including CFD thermal and airflow analysis
- Lead project engineer on multiple concurrent projects: endotracheal tube support, phototherapy eye shade, positioning products, enteral feeding tube, etc.
- Develop new product concepts to improve clinical outcomes of premature babies.
- Interact with clinical professionals to create, improve, and modify products
- Complete technical reviews of business development opportunities
- Support product quality improvements, resolve manufacturing issues, for a broad product portfolio

January 2001 - September 2004

Mechanical Engineer – New Product Development – Patient Interface

Respironics, Inc. Murrysville, PA

- Lead design engineer for the highly successful ComfortGel nasal mask.
- Responsible for creation of product from concept to production (design, prototyping, documentation, manufacturing, testing, quality, etc)
- Developed and implemented challenging and innovative manufacturing processes
- Led team meetings, design reviews, etc.
- Developed and maintained positive relationships with team members from across disciplines and responsibilities, both within and without Respironics
- Researched and developed new materials, concepts, and technologies for application in Patient Interface projects
- Completed special design analysis projects for products within Patient Interface.
- Contributed to Respironics Intellectual Property through innovation and patent submission.

May – August 2000

Engineering Intern – New Product Development – Patient Interface

Respironics, Inc. Murrysville, PA

- Automated a test procedure for benchmarking CO2 rebreathing performance of Respironics Patient Interface devices against competitive products utilizing LabVIEW programming and pressure/flow instrumentation
- Specified and assembled equipment to accurately simulate carbon dioxide in human breath.
- Developed full documentation of test process for both programmers and users, developed automated database to archive test results.

INTELLECTUAL PROPERTY:

Issued Patents:

8,028,699; 7,448,386; 8,347,886; 8,807,134 Full face respiratory mask with integrated nasal interface 7,931,025, 7,931,025 Patient interface and headgear connector 7,900,628; 7,370,652; 7,856,982 8,596,271 Patient interface device 7,721,350 Molded phototherapy goggles 7,178,525 8,118,027 Patient interface assembly supported under the mandible 7,069,932 8,210,179 8,485,191 Patient interface with forehead support system 7,066,179 Patient interface and headgear connector 8,607,386 Infant positioning system and prone positioning apparatus therefor 8,245,711; 8,596,275 Patient interface with an adjustable cushion Published Applications (as Primary or Co-Inventor) 20090032018 System Adapted to Provide a Flow of Gas to an Airway of a Patient 20120220990 Disposable Tip With Sheath 20120198715 Apparatus and method for measuring a body part Design patents D547,789 Phototherapy goggles D489,817; D489,817 Patient interface device