

Property of First Impressions Resume Center

DAN WORTHINGTON

Charlotte, NC ▶ H 704-123-4567 ▶ C 980-987-6541 ▶ dworthing@mymail.com

DIRECTOR OF R&D

Strengths in strategic thinking, project execution, lean and Six Sigma methodologies, and continuous improvement.

SUMMARY

Chemical engineer, Six Sigma black belt, and R&D executive with a distinctive career in product, program, and project management, including technical solution development, change management, and cross-functional team leadership. Recognized for ability to create global engineering teams, develop innovative solutions, and solve “unsolvable” technical problems.

MANAGERIAL ENDORSEMENTS

"Dan is great at leading a team of professionals to solve problems that were previously thought to be unsolvable. He is the consummate research professional and an invaluable asset."

"Dan is diligent, measured, and supportive as a leader and coach, and demonstrates exceptional technical insight...he has been instrumental in helping us expand our reach into international markets, something we could not have done without his expertise."

EXPERIENCE

COMPANY 1 ▶ Charlotte, NC
Director R&D (2010-2014)

Served as a director of R&D for the enterprise's instruments R&D division, tasked with establishing engineering and innovation capability and conducting extensive root cause analyses to address commercialization issues with the stage gate development process.

- Developed a compelling chemical detection solution and product roadmap to overcome an aged, limited, and non-differentiated product and solution portfolio.
 - ⇒ Identified and advanced opportunities for disruptive innovation by conducting multiple cross-functional and multi-business technology and business development workshops.
 - ⇒ Leveraged DFSS tools and processes to capture and translate the voice of the customer, market, and business into unique, sustainable, and valued products and robust manufacturing processes.
- Commercialized a number of sustainable, unique and valued solutions.
- Globalized company's engineering organization by adding critical leadership and technical bench to our US fixed chemical detection team in less than 18 months.
 - ⇒ Established a portable chemical detection team in India in less than 24 months.
 - ⇒ Created a software development team in Australia in less than 12 months.
- Exercised precautions to protect corporate innovations to include filing patent applications, trade secrets, copyright protection, and addressing risks/opportunities associated with Indian utility patents.

COMPANY 2 ▶ Charlotte, NC
Six Sigma Black Belt (2004-2010)

Formulated company's Six Sigma vision and developed supporting strategies/programs to address an increasing number of quality related incidents and limited employee engagement in process improvement initiatives. Provided a series of presentations to all site members to explain the strategy, outline benefits, and detail expectations. Created a concise employee strategy booklet and formed a core team of functional owners to identify and champion

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opportunities. Mentored and facilitated project teams and provided technical support to site-specific activities including gage R&R's, validations, DOE, data analysis, etc.

- Initiated a black belt program, including training, vendor assessment, and candidate and project selection.
- Introduced a yellow belt program to drive vertical integration of Six Sigma via product builder and new engineer engagement in problem solving teams.
- Demonstrated the business potential of Six Sigma by completing numerous individual projects requiring significant investigation and discovery to confirm and resolve root causes.
- Established a site value improvement project prioritization and management process that delivered annual financial returns in excess of \$30M.

COMPANY 3 ▶ Charlotte, NC

Manager – Polymer Processing Center of Excellence (1995-2004)

Directed the Polymer Processing COE in the development of next generation fiber processes while leveraging insights to benefit global manufacturing. Major focus was on the development of a next-generation fiber and process that was critical to business growth while addressing the fundamental limitations of existing products and a capital intensive process. Supervised four scientists and engineers and managed a \$2M annual budget.

- Developed the next generation fiber and manufacturing process with a 10% improvement in ballistics protection and 25% reduction in fixed costs in less than 12 months by leading a cross-functional DFSS program.
- Established capability to evaluate the ballistics potential of small scale samples and refined critical fiber attributes to ensure ballistics performance by completing a Six Sigma black belt project.
- Contributed to record production yields by transferring insights and learnings to existing operations.

EDUCATION

Ph.D. Degree, Chemical Engineering ▶ MIT, Cambridge, MA

M.S. Degree, Chemical Engineering ▶ Georgia Institute of Technology, Atlanta, GA

B.S. Degree, Chemical Engineering ▶ University of Chicago, Chicago, IL