Mark Dydyk

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EXECUTIVE SUMMARY

Operations and engineering executive with 20+ years of leadership across semiconductor, medical device, and advanced manufacturing environments. Specializes in manufacturing ramp, yield improvement, and operational stabilization for growth-stage and complex operations. Proven track record delivering $20M+ cost savings, 50%+ defect reduction, and large-scale capacity expansion. Expert in Six Sigma-driven problem solving, end-to-end process optimization, and building high-performance engineering organizations.

CORE COMPETENCIES

Manufacturing Ramp & Scale-Up | Yield Improvement | Operational Stabilization | Six Sigma Black Belt | pFMEA & Risk Mitigation | Semiconductor & Wafer Fab Operations | Medical Device Manufacturing | CAPA & Quality Systems | Cost Reduction | Process Engineering

PROFESSIONAL EXPERIENCE

Mark Dydyk Consulting LLC — President (Nov 2025 – Present)

Provide fractional executive leadership to advanced manufacturing companies addressing scale-up risk, operational instability, and yield performance gaps. Partner with CEOs, COOs, and engineering leaders to stabilize operations, improve throughput, and build scalable manufacturing processes using Six Sigma–driven methodologies.

Selected Engagement: Niron Magnetics (Advanced Materials / Scale-Up Manufacturing)
• Partnered directly with process engineering to complete an end-to-end pFMEA, identifying and prioritizing high-risk failure modes prior to production ramp
• Developed a full end-to-end manufacturing process map, defining inputs, outputs, and critical process parameters (CPPs) to align engineering, operations, and quality
• Conducted a multi-domain operations readiness assessment, identifying gaps across equipment, process control, and organizational capability
• Translated risk and process insights into a prioritized mitigation roadmap, enabling leadership to focus on highest-impact actions for stable scale-up

Heraeus Covantics — Interim Quality & Process Engineering Leader (Jun 2025 – Sep 2025)

• Interim assignment to stabilize operations, reinforce quality systems, and support engineering team performance during transition.

Medtronic — Director, Operations & Engineering (Feb 2023 – Apr 2025)

• Led 24/7 semiconductor operations (66 employees) across engineering, operations, and maintenance.
• Improved on-time delivery from 80% to 97% and reduced NCRs by 50%.
• Delivered $2.5M annual savings through automated visual inspection optimization.
• Modernized equipment platforms and implemented workforce engagement systems.

Medtronic — Senior Engineering Manager (Oct 2019 – Feb 2023)

• Managed 25-person team supporting high-volume medical device production.
• Quadrupled output of laser bonding process and reduced final device cycle time by 88%.
• Increased laser bond yield by 20% and reduced qualification time from 3 months to 3 weeks.

Medtronic — Engineering Program Manager (Aug 2017 – Oct 2019)

• Directed fab expansion programs and CAPA initiatives for wafer-scale operations.
• Implemented automated material traceability system, eliminating NCMRs.
• Reduced vendor response time from weeks to <2 days for critical equipment issues.
• Upgraded fab infrastructure including gas farms and chemical delivery systems.

Crocus Technology — VP Process Technology / Interim CEO (Dec 2011 – Mar 2017)

• Led $150M wafer fab build and startup, delivering on time and on budget.
• Achieved ISO certification in Europe and United States and executed successful process transfer of MRAM technology.

Henkel — Director, Operations Projects & Global Quality (Dec 2008 – Dec 2011)

• Consolidated global manufacturing footprint from 19 plants to 14, saving $21M annually.
• Standardized quality systems and improved customer complaint metrics.

EDUCATION

B.S. Chemical Engineering — Arizona State University

CERTIFICATIONS

ASQ Certified Six Sigma Black Belt (2003) | ASQ Certified Quality Engineer (2017)