

BIOGRAPHY



Stephen D. Handley

Associate Engineer, Munro & Associates, Inc.

Stephen Handley joined Munro & Associates, Inc. in 2015 after 19 years of hands-on experience in the automotive industry at GM and Ford, 7 years of hands-on experience in the medical device and implant industry at Zimmer, Inc. and Greatbatch Medical, Inc., and nearly 4 years as a master level addiction counselor (CAADC) in Flint, Michigan. He holds a Bachelor of Science degree in Industrial Engineering from Kettering University and a Master of Science degree in Addiction Counseling from Grand Canyon University.

During his 14 year career at Ford Motor Company, Stephen worked at vehicle assembly plants where he served as both a Production Supervisor and Industrial/Process/Production Engineer in the Body Shop, Paint, Trim, and Chassis departments. He advanced to management level as a Trim department Superintendent at Michigan Truck Plant from 1994-1997, and continued his Ford management career through 2001 as a Lean Manufacturing Coach. In this position, he was responsible for implementing the Ford Production (lean manufacturing) System (FPS) at all F-Series stamping and assembly plants in North America.

Stephen's accomplishments and career highlights at Ford include:

- Only Lean Manufacturing Coach at Ford to coach six different plants to the FPS "Checkpoint A" lean implementation benchmark.
- Trained executives, managers, union leaders and plant implementation teams in FPS lean manufacturing techniques and processes.
- Developed and served as Champion of the FPS "Best Practice Replication" and "Lessons Learned" web-based processes.
- Received performance bonus for being a top 20% management performer in 1998.
- Wrote and implemented over 40 cost savings projects resulting in savings exceeding \$10 million.
- Served on a labor study team at Mazda plants in Japan, in 1992.
- Wrote all Trim/Chassis concerns while serving as Final Assembly Pilot Production Engineer for the 1991 Escort pilot build in Hiroshima, Japan, resulting in many design-for-assembly changes.
- Planned, designed, and successfully implemented over 150 new job stations, including work allocations, tooling needs, and work station layouts, for the entire Trim department for 1991 Escort launch.

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Stephen continued his post-Ford engineering and management career in the medical device and implant industry where he gained valuable knowledge regarding CNC machining, foundry, cleaning & passivation, as well as, various plastic molding processes.

Stephen's accomplishments and career highlights from the medical device and implant industry include:

- Implemented lean manufacturing tools such as 5-S, Poke-yoke, SPC, FIFO, PM, visual management, quick changeover (SMED), JIT, and standardized work in Gender Knee manufacturing areas.
- Developed and implemented the "Show and Tell" program to improve operator awareness of Quality issues.
- Champion of the Knee Lean Manufacturing Implementation Team and the Polymer Mold Scrap Reduction Team that reduced scrap by 30% in 2003.
- Reassigned products to free up four HC-400 CNC machines for new products resulting in a cost avoidance of \$450,000 in 2003.
- Responsible for over \$300,000 in other cost reductions for Knee Manufacturing in 2003 and 2004.
- Developed and implemented process improvements in PMMA which resulted in a 25% reduction in labor while increasing output 20%.
- Wrote all product deviation requests and PFMEA's.
- Created and maintained a New Sales Order Tracking Matrix tracking engineering project status.
- Planned and led all pre-production meetings for new products, and created process routings and BOM's for all products.
- Created a pre/post production checklist to ensure that all aspects of launching a new product are assigned and accomplished.
- Managed a multi-million dollar medical instrument project for Depuy.

Stephen now uses his diverse experience and knowledge in manufacturing and assembly processes to teardown, analyze, cost, and benchmark customer and competitor products while developing viable redesign improvement options for clients of Munro & Associates.