

MICHAEL PORTER

OBJECTIVE I performed engineering work full-time for 12+ years in the medical manufacturing field, but without the engineer title as I did not have a degree. I have leadership experience with teams ranging from small groups of 6 technicians to larger cross-functional groups across the globe of more than a dozen. Now that I've completed my degree, I seek to use my skills and enhanced education to continue in the engineering field. My projects from product prototyping all the way through manufacturing, while maintaining critical quality and documentation, brings experience along with my passion for excellence and continuous improvement of both myself and my work.

PROFESSIONAL ACHIEVEMENTS

PROCESS DEVELOPMENT LAB CREATOR AND COORDINATOR

Created a laboratory of equipment and supplies which acts as a central hub of development. Connects experts from multiple product lines to facilitate knowledge transfer. Re-purposed space and equipment, won an award in the category of \$100,000 Value Improvement Project and was commended by the Vice President.

MICROSCOPY IMPROVEMENT, COORDINATOR, TRAINER

As an expert in optics and lighting, I saw a need for improved analytical equipment. Selected microscope system, obtained funding, trained employees for use. Developed a 5-hour subject matter expert training course when other departments saw the value and purchased additional systems of their own.

AUTOMATED ASSEMBLY EQUIPMENT OPTIMIZATION

New equipment which assembled a complicated assembly of three tubes and two wires for a laser-welded assembly struggled with long cycle times and poor yields. Led a cross-functional team to refine equipment, reduce rework by adjusting steps to eliminate backlash during operations, and developed an excel macro that uses previous build data to determine optimal adjustment positions. Brought cycle time below required threshold, met yield goal of 99%.

SKILLS

Software - CAD: SolidWorks, Microsoft Office: Word / Excel / PowerPoint / Project
Microscopy & Machine Vision – lighting & optics optimization, calibration, validation
Infrared thermography and high-speed videography analysis

WORK HISTORY

PROCESS DEVELOPMENT TECHNICIAN IV, BOSTON SCIENTIFIC, MAPLE GROVE, MN

January 2010 – June 2018 – Process Development: Cardiovascular Catheters

Equipment and process development, capability analysis, validation, manufacturing scale-up.

January 2000 – January 2010 – Manufacturing: Catheter Assembly

Manufacturing equipment and process work, process improvements and cost reductions

December 1997 – January 2000 – Manufacturing: Balloons Operations

Cardiovascular balloon molding, equipment and process troubleshooting

EDUCATION

BACHELOR OF MECHANICAL ENGINEERING, MINORS: STATISTICS AND PROJECT MANAGEMENT UNIVERSITY OF GUELPH (ON) 2021

- Graduated with Distinction (highest honour available: GPA 81.34%)
- Completed degree plus all but one course for Statistics Minor in 3 ½ years
- Completing Minors with distance-education classes