

Louis Black

5415 N. Clark Street | Chicago, Illinois 60640 | (773) 907-8660 | lblack5415@aaatargeted.com

PROFILE

EXPERIENCE: Manufacturing engineer who has played a lead role in product design/enhancement based on broad understanding of manufacturing processes.

LEADERSHIP: Collaborative problem solver who works as part of cross-functional teams to improve processes, control costs, and enhance quality.

QUALIFICATIONS

- Product Validation
- Design Processes
- Manufacturing Integration
- Workspace Layout
- Cost & BOM Analysis
- Process Engineering

METHODOLOGIES

- Lean Manufacturing
- Six Sigma
- DMAIC
- ISO 9001
- Kanban
- Mistake Proof Processes
- Kaizen

EXPERIENCE

ENGINEERING SOLUTIONS Chicago, Illinois

2016-2021

MECHANICAL ENGINEER II

Employed Six Sigma and related methodologies to enhance manufacture and launch new products for an engine manufacturing company. Collaborated with Design to validate products and process before they went into production. Conducted time studies using the ERP to break down assembly processes and ensure client deadlines would be met. Provided Accounting with information, including costs and cycle time, needed for manufacturing accounting. Analyzed capital spending and productivity to determine the time needed to pay for new equipment. Work cross-functionally with Manufacturing, Purchasing, Design Engineering, Production Management, and Scheduling.

- Exceeded customers' expectations while meeting deadlines.
- Implemented a Lean culture, working with the Plant Manager to integrate the methodology and training staff in its use.
- Reduced lead time 30% by using Andon Light/ERP to streamline processes for material handling.
- Improved decision making process for production of parts by analyzing BOM and using 3P (Production Preparation Process).
- Promoted a commitment to quality and safety by introducing Visual Management System/5S for assembly.
- Led weekly meetings with the materials team to update Kanban system to integrate new products and remove EOL products.
- Reduced inefficiency by developing value stream mapping.
- Improved assembly and reduced error by designing new fixturing.
- Conducted ISO 9001 audits
- Mentored new engineers/interns to understand assembly process and BOM.

ACME ENGINEERING Bedford Park, Illinois

2014-2015

MANUFACTURING ENGINEER II

Worked with the Operations Manager to create visual management systems across 5 assembly lines at an aerospace manufacturer. Improved quality and productivity by conducting root cause analysis and applying Lean manufacturing principles. Determined what products could be outsourced to local suppliers. Prepared reports that analyzed production/costs and made recommendations about building product in-house or outsourcing the process.

- Improved production 30% by implementing a new color coded kitting system that enhanced assembling and reduced cycle time.
- Managed several 5S projects that reduced waste and controlled costs.
- Improved PLC management to eliminate old part numbers and add new ones.

(continued)

Louis Black, Program Two

SLOT SYSTEMS Chicago, Illinois

2005-2014

PRINCIPAL MANUFACTURING ENGINEER (2010-2014)

Collaborated with Design Engineers to create prototypes and ensure production readiness for a slot machine manufacturer. Documented all phases of cycle time for material management and assembly processes. Partnered with Maintenance on floor layout and line setup based on analysis of BOM. Addressed quality issues by performing root cause analysis/DMAIC. Trained Quality Technicians in new product assembly processes. Supervised engineers when the department manager was not available.

- Reduced costs for inventory management for end of life (EOL) by approving ECR and ECO/MCO's in the ERP system.
- Analyzed customer feedback to identify problems and eliminate them in future products.

MANUFACTURING ENGINEER I, II (2005-2010)

Developed and maintained labor routing and product structures in the ERP system. Maintained technical documentation (ECN/CAD files and prints).

- Purchased \$80,000-\$150,000 in tooling and perishable production supplies.
- Generated the Annual Capital Plan and Purchase Production: \$150,000-\$250,000 annually.

EDUCATION

NORTHERN ILLINOIS UNIVERSITY DeKalb, Illinois

BS, Mechanical Engineering Technology

2010

TRAINING

ISO 9001 Quality Auditor

TECHNICAL SKILLS

Design: AutoCAD, Solidworks; **ERP:** AS 400, Oracle, SAP; **MS Office:** Excel, Access, PowerPoint, Word