

Results-driven Plastics Engineering Manager with years of diverse experience driving innovation and operational excellence across the plastics industry. Excel at revitalizing struggling projects, optimizing production processes, and implementing cutting-edge manufacturing techniques. Proven track record of leading global teams and managing complex new product introductions while fostering successful collaborations with domestic and international suppliers. Expert in mold design, scientific molding techniques, and medical device production with ISO 13485 certification. Consistently develop competitive yet profitable quotations that secure lucrative business while maintaining strong customer relationships and ensuring manufacturing excellence.

## Areas of Expertise

### Technical Competencies:

- Injection Molding Processes (Thermoplastic, Thermoset, LSR)
- Scientific Molding Methodologies (RJG Certified)
- Medical Device Manufacturing (ISO 13485, cGMP)
- Clean Room Operations (Class 100000)
- Advanced Material Processing & Analysis

### Operational Excellence:

- Manufacturing Process Optimization
- Quality Control Systems (DOE/SPC/FMEA)
- Product & Process Validation (IQ/OQ/PQ)
- Lean Manufacturing Implementation
- Production Cost Reduction Strategies

### Leadership & Business Development:

- Project Management & Tool Development
- Customer Relationship Management
- Mold Design & Engineering Oversight
- Competitive Quotation Development
- Cross-Functional Team Leadership

## Professional Experience

Flexan Corporation (Div of Ingersol Rand), Salt Lake City, UT

January 2024 — Present

### North American Plastics Tooling and Molding Engineering Manager

Oversee all North American molding operations, ensuring efficient startup and completion of new projects. Quote and manage new product introduction projects from engineering design through to manufacturing and assembly. Establish timelines and facilitate project transfers to appropriate manufacturing locations. Train engineering, manufacturing, and quality staff on protocols for successful program launches. Lead collaborations with domestic and international mold suppliers, overseeing new mold designs and build timelines. Manage engineering staff tasked with maintaining optimal operations and reducing labor and scrap across facilities.

- Revitalized long-stagnant projects, bringing them to fruition within six months.
- Designed and arranged the floorplan for the Center of Excellence Molding Clean Room Facility.
- Achieved a significant reduction in scrap rates, lowering them from approximately 30% to 2%.

Abbott Laboratories International, Chicago IL

June 2020 — December 2023

### Global SR. Principal Engineer – Plastics

Directed management of projects and programs, with a focus on new product development in the Rapid Diagnostics Division, targeting Cardiometabolic and Toxicology initiatives. Served as a subject matter expert for plastics molds and molding, overseeing supplier qualification for tooling and projects. Coordinated cross-functional engineering reviews to evaluate and qualify new programs, ensuring alignment with internal requirements. Managed simulations, engineering needs, and new tooling processes at both external and internal suppliers. Developed and approved mold designs, guaranteeing risk mitigation and adherence to timeline expectations. Established validation processes for molds and equipment, working with operations, supply chain, and quality teams.

- Designed and constructed 51 new injection molds for the Rapid Diagnostics Division Covid 19 program, meeting the expected timeline of nine months.
- Played a pivotal role in the design and launch of a 500,000 square foot molding facility with 51 machines, significantly enhancing production capacity.

Union Tool & Mold Company, Maplewood, NJ

March 2019 — May 2020

### Vice President of Engineering and Operations

Directed engineering and tool room teams to effectively manage all manufacturing operations. Communicated with customer base

to provide quotations for prototype and production tooling, molding prices, and aligned product specifications with customer needs. Developed cost structures for molding and new molds. Implemented process improvements and quality control measures, driving operational efficiency in manufacturing. Coordinated production schedules and optimized resource allocation to meet customer deadlines and quality standards. Oversaw health and safety compliance in tool room and production areas.

- Reduced machine downtime by implementing SMED processes, leading to improved mold changeover efficiency.
- Enhanced molding cycle times by 8-15% through the application of Scientific Injection Molding techniques.

**Kari Out- Tripak Plant, Tarrytown, NY**

**February 2017 — March 2019**

**Plant Manager**

Ensured comprehensive oversight of plant safety, manufacturing, and packaging operations. Streamlined logistics and warehousing functions. Maintained plant and equipment to minimize downtime effectively. Coordinated with internal and external suppliers for seamless production flow. Managed full P&L responsibilities, aligning financial outcomes with strategic objectives.

- Lowered scrap rate from low teens to below 2% by implementing quality control measures.
- Enhanced machine utilization through water chilling systems, leading to increased productivity and reduced downtime.
- Cut labor costs by implementing automation and refining operator methods.

**Weiss- Aug Surgical Products Division, Fairfield, NJ**

**July 2016 — January 2017**

**Operations Manager**

Oversaw operations in manufacturing, supervising a diverse team including process and mold engineers, maintenance staff, and material handlers. Developed strategies to enhance production efficiency by reducing mold and tooling downtimes. Coordinated tooling and process developments, led implementation of ERP business systems, and managed rollout of a new plant in Mexico, focusing on layout, workflow, and staffing needs. Controlled tooling prints and revisions throughout the mold lifecycle. Managed logistics by organizing material handlers and overseeing shipping and receiving schedules.

- Elevated quality of molded parts by integrating advanced vision systems into molding machinery.
- Significantly reduced mold damage with new technical implementations, enhancing operational efficiency.

**Baxter Enterprises/Hi Tech Mold & Engineering, Winchester, TN**

**January 2015 — June 2016**

**Manufacturing Engineering Manager**

Oversaw budget and team for the manufacturing engineering department, directing 4 process engineers, 7 technicians, 1 tooling engineer, and 10 setup personnel. Led new project rollouts by strategically assigning engineering resources while managing design review processes for new molds. Collaborated with tool engineering, material suppliers, and customers to meet specifications, identifying and rectifying deficiencies in equipment and tooling that contributed to scrap rates. Enhanced productivity and quality by managing BOMs and process validation and implementing 5S and lean methodologies.

- Reduced scrap rate from 12% to 1.5% by implementing robust molding processes.
- Decreased machine downtime significantly, optimizing mold change times through SMED.
- Achieved substantial labor reductions via strategic implementation of automation and robotics.

**Polymer Technologies Inc., Clifton, NJ**

**March 2013 — December 2014**

**Engineering Manager**

Oversaw all tooling and plant equipment operations, collaborating with clients on both new and existing tooling programs. Directed program managers and project engineers to ensure adherence with GMP, SOP, FDA, and ISO standards. Approved and supervised internal and external tooling projects while managing vendor relations and quoting for new tooling initiatives. Conducted tooling specifications development, mold flow analysis, and scientific evaluations. Coordinated pilot production runs, ensuring process capabilities and viability, and supported continuous improvement initiatives, including Lean Manufacturing and root cause analysis.

- Implemented mold design enhancements leading to improved output and cycle times.
- Achieved scrap reduction through innovative mold design and process optimizations.

**Moldamatic LLC., Penndel, PA**

**January 2012 — March 2013**

**Program Manager/Plastic Engineer**

Directed management of new projects from inception to completion by integrating project management and engineering expertise. Collaborated with customers to secure approvals for part designs, mold designs, and associated costs while establishing quality, manufacturing, and packaging plans. Coordinated with vendors, internal and external tool rooms, production, and QA teams. Addressed project constraints by engaging with management resources or suppliers proactively. Defined best molding conditions utilizing scientific methodologies and sustained successful program outcomes by diligently maintaining all project documentation and processes.

- Successfully managed projects utilizing a blend of project management and engineering skills.
- Took ownership of obtaining customer-approved designs and costs, enhancing project clarity and alignment.

- Implemented robust and sustainable manufacturing processes prior to first production run.
- Facilitated program profitability by ensuring timely completion of all project documentation.

## Additional Experience

### **Global Quality Assurance & Efficiency Manager || EMI Yoshi, W Brunswick, NJ**

Managed the design and development process for new injection molds, overseeing construction timelines, qualifying mold capabilities, and assessing initial production runs primarily in China. Directed an annual program involving up to 100 new molds, establishing standard cycles and process condition sheets through scientific molding studies. Supervised injection molding operations at both company-owned and external facilities.

- Led successful collaboration with marketing teams to introduce innovative products in global markets.
- Established comprehensive quality benchmarks, significantly improving shipment standards and efficiency.

### **President || Anderson Tool and Die Incorporated, Linden, NJ**

Directed comprehensive operations as a 25% partner in a custom molding shop, overseeing manufacturing, maintenance, tooling, assembly, and packing in a 33,000-square-foot facility. Developed and designed all new tooling for injection and blow molded products and managed program operations for new tooling projects.

- Spearheaded introduction of proprietary line of surgical scrub brushes and disposable medical instruments.
- Instrumental in positioning company as a major player in the POP marketplace.

### **Operations Manager || Wiggins Plastics, Clifton, NJ**

Directed molding operations consisting of 53 thermoset and thermoplastic machines operating across four shifts over seven days. Orchestrated training programs for processors and technicians to ensure accurate setup and operation cycles using scientific methodologies. Supervised over 100 hourly employees alongside 10 molding and assembly supervisors.

- Successfully managed a diverse and large-scale molding operation, driving significant improvements in efficiency and output.
- Spearheaded automation initiatives, contributing to increased precision and reduced labor costs.

### **Process Engineer || Johns Manville Holophane Lighting Division, Manville, NJ**

Optimized manufacturing processes utilizing scientific molding methods and statistical process controls. Collaborated with tooling engineering and machine maintenance teams to enhance machine and tool performance. Managed a machine range of 1500 to 4000 tons with a 40-pound shot capability, driving improvements in efficiency and output.

- Achieved reduction of plant reject levels from 10% to 1.7%, significantly boosting product quality and reliability.
- Implemented strategies that reduced cycle times plant-wide by 24%, resulting in increased output and operational efficiency.

### **Process Engineer || The Regina Corporation, Rahway, NJ**

Designed and qualified molds, ensuring optimal process conditions and cycles. Maintained records of job data, drawings, and setup sheets to support engineering and production operations. Initiated assembly and other downstream setups at molding presses. Analyzed production processes for potential improvements and implemented cost-saving strategies across multiple facilities. Worked across two locations, providing consistent attention to both the Mississippi and Rahway operations.

- Achieved top contributor status for companywide cost savings over two consecutive years.

### **Setup/Process Tech || Kings Custom Molding, Hackensack, NJ**

Advanced from entry-level roles to become a shift supervisor at an injection molding company. Optimized injection molding processes to enhance profitability, under the mentorship of an experienced industry professional. Assumed responsibilities across multiple functions including forklift operation, material handling, mold setup, and machine processing.

- Successfully transitioned through various roles culminating in a supervisory position, demonstrating adaptability and commitment.
- Streamlined molding operations contributing to increased production efficiency.

## Education & Certification

**Associate Degree**, Accounting and Business, Bergen Community College

**RJG Associates**, Scientific Molding Certification

**NJ Institute of Technology**, Plastics and Polymer Engineering and Mold Design

**Tinius Olsen**, Plastic Materials Rheological Behavior Certificate

**Machine Training Certifications**: Cincinnati Milicron, Nissei, Toshiba, Husky, Van Dorn, Arburg

## Professional Affiliations

Society of Plastics Engineers

Plastics Troubleshooting Network

UL IDES Community of Design and Process Engineers for Industry

Plastic Injection Molding Solutions