

**LALBHAI (PAT) PATEL**

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**CAREER SUMMARY**

Results oriented proven bottom line contributor, MS Plastics Engineer with hands on technical and problem solving expertise in molding and tooling of disposable Medical Filtration and Labware Devices, Infant-Feeding Devices, Baby Products, Pharmaceutical and Consumer Packaging Products. Demonstrated knowledge and skills in developing relationships with domestic and global molding suppliers for molding and tooling technology transfers. Seeks challenging technical or plastic engineering position to increase bottom-line by implementing common senses practices of material, mold design and trouble shooting molding problems.

**PROFESSIONAL EXPERIENCE**

**PALL CORPORATION, East Hills, NY**

**1997 - 2004**

**Director of Molding and Technology** (2001 - 2004)  
**Manager of Molded Components** (1997 - 2001)

Managed and executed corporate-wide multi discipline engineering responsibilities for over 100 active medical filtration device housing tools, tool maintenance, tool design, fabrication and qualification of new duplicate & transferred tools at domestic and European sites, and validation of alternate filter device materials for manufacturing processes using FDA and ISO guidelines.

- Achieved \$750k/year annual cost reduction by redesigning and revalidating new and existing production tools and by renegotiating components costs from the molding suppliers.
- Contributed \$500k/year saving to the manufacturing bottom line by replacing older cold runner two-shot molding technology with new two shot hot runner technology.
- Increased molding capacity and achieved cost reduction goals through the fabrication of 30 new multi-cavity duplicate tools over a five-year \$3mm spending plan with ROI analysis.
- Developed and managed domestic and European resources for single and multi cavity molding of filter device housings.
- Strengthened relationships with material suppliers, molders and tool makers through extensive travel in the USA, UK, Ireland, Netherlands and Puerto Rico and exchanged feedback on molding, tooling and continuous quality improvement.
- Effectively interfaced with the R&D, product/process development, manufacturing and molding team to meet corporate quality control / regulatory compliances using process control, SPC, DOE, FMEA and Six Sigma process techniques.
- Achieved cost reduction by qualifying alternate local molding suppliers near Pall facilities to reduce freight cost and JIT.
- Investigated IML on filter housing tools to eliminate logo printing and justify capital for equipment and tool technology.
- Provided technical and engineering supports to Pall west coast in-house flexible PVC molding and extrusion operations.
- Realized 25 – 30 % cost reduction by implementing an e-commerce internet bidding process through worldwide molding suppliers, including Asian suppliers, as a key technical liaison to the Corporate Plastic and Chemical Cost Reduction Team.

**JOHNSON & JOHNSON, CONSUMER FRANCHISE, SKILLMAN, NJ**

**1995 - 1997**

**Senior Plastics Engineer, R&D**

- Actively managed \$1.5mm capital expenditures for new tool and cost improvement projects including proto-type and production molds from purchase to mold release to meet manufacturing capacity and quality performance goals for injection molding and injection blow & extrusion blow molding of J&J Healthflow Infant-Baby feeding devices and other baby products.
- Achieved \$500k/year cost reduction by introducing Liquid Silicone Injection molding and unscrewing closure molding technology to the J&J in-house molding facility to meet brand cost improvement goals.
- Executed mold design changes on feeding device tools to improve quality and molding capacity.
- Developed an in-house proto-type tool and alternate molding technology for Healthflow devices.
- Optimized device manufacturing processes through process control and SPC/DOE techniques for continuous quality improvement and interfacing with molders, tooling suppliers, material vendors and corporate QA.

**BECTON DICKINSON COMPANY, LABWARE DIVISION**

**1991 – 1995**

**Senior Plastics Project Engineer, Durham, NC** (1994 – 1995)  
**Senior Molding Engineer, Franklin Lakes, NJ** (1991 -1994)

- Achieved \$250k/year reduction in costs by successfully transferring vented cap and cell inserts molding technology to in-house molding facilities in the U.S. and U.K.

- Optimized part & tool design of new and existing Labware production tools to ease the molding of tissue culture, fluid handling and centrifuge tube devices.
- Maximized the productivity of roller bottles from ISBM cell to 1mm/year by instituting process and mold changes.
- Developed proprietary material formulations for multi-well cell culture clear/opaque assay plates and cell insert/dish devices.
- Characterized polymer molecular and chemical properties for final selection and approval from the corporate molding technology and regulatory group by coordinating alternate material testing in analytical labs.
- Performed engineering studies on extrusion, injection molding, injection blow and injection stretch blow tooling and molding processes.
- Improved the quality and capacity of new and existing molds using SPC/DOE techniques and GMP validation protocol at both contract vendors and BD Labware facilities by executing mold debugging and process optimization activities.
- Worked in multi-functional team for troubleshooting quality and process related problems.
- Traveled with marketing and sales to visit customers to provide feed back on product complaints and root cause analysis.

**THE WEST COMPANY, WILLIAMSPORT, PA****1983 -1991****Senior Process/Materials Engineer**

- Optimized molding processes for new unit and multi-cavity molds in injection molding and injection blow molding presses at three manufacturing sites.
- Engaged in mold design review and molding of plastics threaded closures, containers, and disposable medical devices.
- Supervised Engineering Tech Center activities for two years at Plastic Closure Division, Wayne, NJ.
- Performed R&D activities at TC that included testing of new molds, alternate resin, color concentrates and screw design.
- Achieved cost reduction and improved long term contracts by selecting an alternate PE, PP, GPPS & Engineering plastics.
- Worked with QA in implementing GMP, SPC & DOE techniques on production tools.
- Increased molding technicians' abilities in troubleshooting quality related problems in molding through material / mold set-up, mold modifications and process optimization.
- Provided technical support to site molding teams for qualifying alternate resin and color concentrates in molding.
- Received FDA approval for injection molded plastics closure DMF.

**BELL & HOWELL, CHICAGO, IL****1978 - 1983****Senior Plastics Process Development Engineer**

- Directly involved in tool design, tool fabrication and molding of precision plastics lens/optics, structural parts of photographic equipment and Airborne Night Vision Binocular system for the US Navy (24 tool program).
- Established new process parameters route sheet for proto-type and production molds using Hunker and Moog closed loop process control equipment.
- Supervised molding activities for one year.
- Completed the Tool and Die apprentice & Mold maintenance training. Performed studies in material selection, purchase of new molding machines and auxiliary equipment.
- Specified mold design requirements for cavity-core layout, runner and gate size, vent location and mold cooling for commodities polymers and engineering thermoplastics.

**EDUCATION**

MS Plastics - Lowell Technology Institute (U. Mass.), Lowell, Mass.  
 BS Chemistry - Gujarat University, India.

## Relevant training completed in:

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|---|---|
| • Tool and Die making for extrusion injection molding and IBM processes | • Advance tool design & mold making practices |
| • RJG molding process monitoring  | • Advanced Polymer Materials Science          |
| • SPC, Six Sigma Green Belt, DOE, FMEA techniques                       | • Microsoft Office                            |

Attended several regional SPE-Antec meetings, MD&M in New York and Los Angeles, NPE in Chicago, K-show in Düsseldorf and Plastindia trade show in New Delhi, India.