

Andrew Wood

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Professional Summary

Results-driven Manufacturing and Program Manager with over 14 years of experience leading engineering and operations initiatives across multiple manufacturing methods including plastic and metal injection molding, over-molding, stamping, CNC, fabrication, assembly lines & 3D printing. Proven success managing multi-million-dollar programs, driving continuous improvement, and launching automated production lines. Proven abilities in Lean manufacturing, root cause analysis, and cross-functional leadership. Strong background in APQP, PPAP, FMEA, ERP systems, and cost analysis. Green Belt trained, with experience supporting P&L, mentoring engineers, developing training programs, and working cross-functionally from shop floor to executive level. Skilled in offshore collaboration, demand forecasting, and on-time delivery planning.

Professional Experience

Project Engineering Manager (Promotion)

Polymer Technologies Inc. (PTI) – Clifton, NJ | June 2025 – Present

- Promoted to lead a portfolio of 10+ simultaneous new product development (NPD) and automation projects, each ranging from \$500K–\$2M in scope.
- Coordinate a cross-functional team of 10 engineers, technicians, quality, and operations personnel, ensuring alignment across design, tooling, automation, and manufacturing readiness.
- Manage vendor relationships with tool shops, automation integrators, material suppliers, and component suppliers, overseeing quotations, SOWs, contract terms, design reviews, and timeline adherence.
- Drive the execution of multi-million-dollar automation builds, facilitating FAT/SAT approvals, risk assessments, and change management to deliver production-ready systems.
- Utilize Microsoft Project and Monday.com to develop project schedules, track milestones, and communicate progress to leadership and stakeholders.
- Applying formal project management methodologies while working toward PMP Certification, implementing structured processes for risk management, documentation, and cross-functional communication.

Manufacturing Manager

PTI Tech – Clifton, NJ | Sept 2018 – Present

- Report directly to the COO, managing end-to-end manufacturing strategy and execution for high-value injection molding programs—up to \$18M in total value.
- Lead full-cycle program management for custom, stand-alone production cells from design through production ramp-up.
- Reduced scrap rates from >20% to < 3% and cut sourcing costs by over \$100,000 through Lean initiatives and vendor negotiations.
- Improved production cycle times by 100% with tooling redesigns and process enhancements.
- Managed cross-functional teams and oversaw 1–2 direct reports and broader operations personnel.
- Implemented KPI tracking and root cause tools for operational excellence.
- Applied APQP, FMEA, and SPC in collaboration with the Quality Director.

Manufacturing & Project Engineer

Interplex – Northvale, NJ | May 2017 – Sept 2018

- Led 3–5 high-capacity, 24/7 automated production lines, with a focus on improving OEE
- Managed 2–3 new product development projects from concept through PPAP approval.
- Executed structured problem-solving using 8D, A3, Fishbone, and 5 Whys methodologies.
- Maintained ERP systems for engineering changes and production documentation.
- Partnered with sales engineering for customer quotations and feasibility analysis.
- Completed Lean Six Sigma Green Belt training and applied tools for waste reduction.

Project Engineer

Polymer Technologies Inc. – Clifton, NJ | Mar 2014 – May 2017

- Managed over 20 projects from concept to delivery in plastic, metal, and ceramic molding.
- Implemented lean improvements saving \$100,000 annually and redesigned key production areas.
- Created 3D-printed prototypes and supported tooling modifications and process design.

Structural/Design Engineer

Sign Post Solutions – Tipton, UK | 2008 – 2010

- Designed steel and passively safe signposts; developed manufacturing drawings and supporting FEA.
- Presented technical content to directors and improved customer relationships.

Project Engineer

Corus Automotive – Wolverhampton, UK | 2006 – 2007

- Through data collection, analysis and Gemba walks authored a cost-saving report on scrap reduction describing potential savings of \$250,000. Performed materials and weld testing, assisted the quality engineering department in PPAPs & Gauge R&Rs

Education

BS Mechanical Engineering & CAD, Sheffield University, UK – 2008

Highfields Science Specialist School – Wolverhampton, UK

Physics, Mathematics, Business studies, Economics

Technical Skills

SolidWorks, AutoCAD, ProE, ERP Systems, Lean Manufacturing, APQP, FMEA, PPAP, SPC, DFM, Root Cause Analysis (8D, A3, Fishbone, 5 Whys), Project Management, KPI Development, Microsoft Office Suite (Excel, Word, PowerPoint, Project), Green Belt Certified, ITAR, CUI, ISO 9001, AS9001