

Robert L. Miller

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PROFESSIONAL SUMMARY

Senior Nonwoven Filament Machine Operator with over 10 years of experience managing high-capacity spunbond and meltblown production lines. Proven track record in optimizing machine settings to reduce material waste by 15% while consistently exceeding daily output targets by 10%. Expert in chemical processing and troubleshooting complex industrial extruders.

WORK EXPERIENCE

Lead Nonwoven Line Operator | Precision Fibers Inc. | Charlotte, NC

May 2018 - Present

- Managed high-speed Reicofil 4 spunbond production line, consistently exceeding throughput targets by 12% annually.
- Reduced raw material waste by 18% through the implementation of a new polymer filtration monitoring protocol.
- Oversaw a crew of 6 operators, ensuring 100% compliance with OSHA safety regulations and internal quality standards.
- Optimized extruder temperature profiles which resulted in a 5% improvement in fabric tensile strength and uniformity.
- Orchestrated a preventive maintenance schedule that decreased unplanned machinery downtime by 22% over two years.

Senior Filament Machine Technician | Global Textile Solutions | Greenville, SC

Aug 2013 - Apr 2018

- Operated dual-beam meltblown equipment for medical-grade filtration media production.
- Spearheaded a process improvement project that identified and corrected air pressure fluctuations, saving \$15,000 in monthly scrap costs.
- Trained 12 junior operators on chemical safety and advanced machine troubleshooting techniques.
- Achieved a record 400 days without a safety incident while maintaining peak production speeds.
- Conducted detailed quality audits using digital thickness gauges and air permeability testers to ensure ISO 9001 compliance.

Nonwoven Production Operator | FiberTech Manufacturing | Spartanburg, SC

Jun 2009 - Jul 2013

- Responsible for the setup and operation of thermal bonding calenders and high-capacity winders.
- Improved roll changeover efficiency by 25% by redesigning the staging workflow for finished product.
- Monitored polymer feed systems and adjusted masterbatch dosing for color-specific production runs.
- Assisted engineering team in the successful commissioning of a new \$2M nonwoven production line.
- Troubleshooted mechanical issues in real-time to maintain a 98% machine uptime rating.

EDUCATION

North Carolina State University | Bachelor of Science | Textile Technology

Aug 2005 - May 2009

Central Piedmont Community College | Associate of Applied Science | Industrial Systems Technology

Aug 2003 - May 2005

SKILLS

Meltblown & Spunbond Technology, Extrusion System Calibration, Web Forming & Bonding, Tension Control Systems, Slitting and Winding Equipment, Chemical Processing Maintenance, Statistical Process Control (SPC), ISO 9001 Compliance, OSHA Safety Standards, Quality Inspection Tools, Hazardous Material Handling, Lockout/Tagout (LOTO)

CERTIFICATIONS

Certified Nonwovens Professional | INDA Association of the Nonwoven Fabrics Industry (Nov 2015)
OSHA 30-Hour General Industry Safety | Occupational Safety and Health Administration (Mar 2019)

LANGUAGES

English (Native)
Spanish (Fluent)

ACTIVITIES

Textile Industry Mentorship

Volunteering as a mentor for local community college students entering the manufacturing workforce.

Annual INDA World of Nonwovens Conference

Regular attendee focusing on the latest advancements in sustainable filament processing.