

# David Henderson

d.henderson.professional@outlook.com | 0161 496 0123

## PROFESSIONAL SUMMARY

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Senior Nonwoven Filament Machine Operator with over 10 years of experience managing high-capacity spunbond and meltblown production lines. Proven track record in optimising 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

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### **Lead Nonwoven Line Operator | Northern Technical Fibres Ltd | Manchester, UK**

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 HSE safety regulations and internal quality standards.
- Optimised 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 | Leeds, UK**

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 £12,000 in monthly scrap costs.
- Trained 12 junior operators on COSHH 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 | Apex Manufacturing UK | Huddersfield, UK**

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 colour-specific production runs.
- Assisted engineering team in the successful commissioning of a new £1.5M nonwoven production line.
- Troubleshoot mechanical issues in real-time to maintain a 98% machine uptime rating.

## EDUCATION

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### **University of Manchester | Bachelor of Engineering (Hons) | Textile Science and Technology**

Sept 2005 - Jun 2009

### **Manchester College | BTEC Level 3 Extended Diploma | Manufacturing Engineering**

Sept 2003 - Jun 2005

## SKILLS

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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, HSE Safety Standards, Quality Inspection Tools, Hazardous Material Handling (COSHH), Lockout/Tagout (LOTO)

## CERTIFICATIONS

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NEBOSH National General Certificate in Occupational Health and Safety | NEBOSH (Mar 2019)  
NVQ Level 3 in Performing Manufacturing Operations | City & Guilds (May 2011)

## LANGUAGES

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English (Native)  
Polish (Fluent)

## ACTIVITIES

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### **STEM Ambassador**

Volunteering to speak at local schools about careers in modern UK manufacturing.

### **Industrial Innovation Forum**

Active member of regional forums discussing sustainable polymer use in textiles.