

Xiao Fischer

Manufacturing Engineering Technician

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SUMMARY

Manufacturing engineering technician with three years of hands on experience supporting **high volume production** equipment, **process control**, yield improvement, and technical documentation. Applies electrical, electronic, and mechanical troubleshooting during extended shift operations, then verifies stable recovery before production resumes. Monitors Process Control Plans, responds to SPC alarms, maintains gauges, and collects tool and **product performance** data for sound process decisions. Executes planned experiments, analyzes results, and records findings through SOPs, drawings, **process specifications**, and technical reports. Supports equipment installation and qualification, trains production associates, and coordinates with engineers, operators, maintenance teams, and suppliers. Maintains careful PPE, housekeeping, waste handling, and nonconforming product practices. Brings clear English communication, practical judgment, and steady production support that can help a manufacturing team protect safety, yield, quality, and throughput.

EXPERIENCE

Manufacturing Engineering Technician

Riverbend Materials 📅 January 2025 - Present 📍 Huntsville, AL

Supports high volume manufacturing operations through daily troubleshooting, process control, measurement, experiments, training, and production data review. Works with manufacturing engineers, operators, maintenance personnel, and suppliers while protecting stable output and safe execution.

- Recovered production equipment through electrical and mechanical troubleshooting during high volume operations
- Restored process control after **SPC alarms** using **Process Control Plan** limits and verification checks
- Traced **yield excursions** through tool data, **product data**, and recurring equipment conditions
- Set up production **gauges** and maintained records supporting dependable measurement decisions
- Executed planned experiments, analyzed results, and summarized findings for **manufacturing engineering** review
- Trained production associates on work instructions, process checks, safety expectations, and escalation criteria

Machine Technician

Cedar Valley Components 📅 September 2023 - December 2024 📍 Athens, AL

Maintained production machinery across **extended shifts**, supported equipment installation and qualification, and kept operating documentation current. Coordinated equipment issue reviews, material disposition, supplier visits, and safe work practices across active manufacturing areas.

- Diagnosed mechanical and basic electrical faults affecting production machinery during extended shift coverage
- Supported **equipment installation** and **qualification** through setup checks, observations, and deviation escalation
- Updated SOPs and equipment notes after approved process changes and method reviews
- Inspected nonconforming material against **NCP criteria** and routed disposition information correctly
- Organized supplier visits with equipment symptoms, maintenance records, and operating observations
- Followed PPE, **housekeeping**, waste, and **hazardous waste** procedures during production support

Industrial Systems Technician

Calhoun Community College 📅 August 2022 - May 2023 📍 Tanner, AL

Completed supervised industrial systems laboratory work involving equipment inspection, electrical fundamentals, mechanical systems, process measurement, and **technical documentation**. Practiced structured troubleshooting and communicated observations through clear written records and team discussions.

- Inspected training equipment using electrical, electronic, and mechanical checks under instructor supervision
- Collected gauge readings and organized daily **tool data** for laboratory process reviews
- Performed planned experiments, recorded observations, and discussed results with technical instructors
- Drafted equipment notes and **SOP** updates after supervised laboratory procedure changes
- Practiced safe **PPE** use, housekeeping, **waste** handling, and equipment shutdown procedures
- Presented troubleshooting findings clearly during team reviews and technical communication exercises

PROJECTS

Process Control Recovery Study 📅 2025

Small process signals can protect large production goals. Reviewed SPC alarm patterns, gauge readings, and product data in a supervised improvement study, then documented recovery checks and findings for process review.

Equipment Qualification Workbook 📅 2024

Good qualification work makes future troubleshooting easier. Built a supervised workbook covering setup checks, equipment observations, deviation notes, process specifications, and approval records.

LEADERSHIP & AWARDS

- Received team recognition at Riverbend Materials for dependable SPC response and clear production recovery documentation.
- Recognized during technical studies at Calhoun Community College for safe laboratory practice and practical troubleshooting communication.
- Selected by production peers as a go to resource for gauge checks, work instruction questions, and escalation guidance.

EDUCATION

Associate of Applied Science in Industrial Systems Technology

Calhoun Community College 🎓 GPA: 3.5 📅 2023 📍 Tanner, AL

Coursework: Electrical systems, mechanical systems, industrial controls, process measurement

CERTIFICATIONS

- OSHA 10 Hour General Industry 📅 2024
- Statistical Process Control Fundamentals 📅 2025

TECHNICAL SKILLS

- **Electrical Systems:** Electrical troubleshooting, electronic circuits, electrical safety
- **Mechanical Systems:** Mechanical troubleshooting, machine maintenance, equipment inspection
- **Process Control:** SPC, Process Control Plans, control limits
- **Measurement Systems:** Gauge setup, gauge verification, measurement records
- **Manufacturing Data:** Tool data, product data, yield data
- **Experimentation:** Planned experiments, data analysis, results documentation
- **Equipment Qualification:** Installation checks, qualification records, deviation review
- **Technical Documents:** SOPs, drawings, process specifications
- **Quality Controls:** NCP criteria, nonconforming product, product performance
- **Safety Systems:** PPE, housekeeping, hazardous waste procedures
- **Production Communication:** Work instructions, associate training, escalation criteria
- **Workplace Protection:** Safety glasses, hearing protection, protective garments

SKILLS

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|-----------------------|------------------------------|--------------------------|----------------------|
| • SPC | • Equipment Qualification | • Data Collection | • Technical Training |
| • Gauge Setup | • Electrical Troubleshooting | • Data Analysis | • NCP Disposition |
| • Yield Analysis | • Mechanical Troubleshooting | • SOP Documentation | • Safety Compliance |
| • Process Experiments | • Process Control Plans | • Process Specifications | |

PROFESSIONAL AFFILIATIONS

- Member, Society of Manufacturing Engineers, with interest in process control, production systems, and technical improvement.
- Participant, Calhoun Community College Industrial Systems community, supporting peer learning and safe laboratory practice.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST