

STRENGTHS

- Q

Structured Troubleshooting

Used production data and issue investigation to separate symptoms from causes, giving technical teams clearer next steps.
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Process Documentation

Created procedures and records for consistent execution, and teams relied on clearer guidance during daily operations.
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Cross Functional Coordination

Aligned production priorities with engineering activities, keeping improvement work moving when several teams needed support.
- Continuous Improvement

Applied practical improvement methods to workflow concerns, and peers recognized a steadier path from findings to action.
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Operational Discipline

Supported safety, quality, and compliance through dependable controls, with daily habits that made execution more predictable.

SKILLS

- PECVD process engineering

Thin film processing

Process optimization

Process characterization

Root cause analysis

Statistical process control

Design of experiments

Gage R&R

JMP

Excel

MES systems

Thin film metrology

Cleanroom operations

Yield improvement

Equipment performance
- SUMMARY
- Manufacturing and operations professional with experience supporting semiconductor PECVD process engineering through process improvement, production analysis, equipment optimization, documentation, and **cross functional execution**. Leads daily activities for complex manufacturing processes, applies structured problem solving, and works with engineering and production stakeholders to address performance concerns. Uses process metrics, operational controls, **root cause analysis**, and continuous improvement methods to strengthen quality, reliability, and workflow consistency. Develops procedures that support disciplined execution, safe operations, and clear accountability. Brings practical experience with manufacturing systems, **process documentation**, technical coordination, and performance measurement. This background supports thoughtful **process ownership**, reliable troubleshooting, and sustained improvement across cleanroom manufacturing environments and thin film operations.
- EXPERIENCE
- Senior PECVD Process Engineer

NanoFab Process Solutions

January 2022 - Present

Dallas, TX

Owns daily support for complex **semiconductor manufacturing** processes, coordinating production priorities, process analysis, documentation, and improvement work across technical and operational teams. Supports reliable execution through structured problem solving, performance review, and disciplined **operational controls**.

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Led production process reviews using structured problem solving, resolving performance concerns before broader workflow disruption.

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Developed operating procedures and records, supporting consistent execution across quality controlled manufacturing activities.

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Analyzed **process metrics** with engineering partners, identifying improvement opportunities for reliable production performance.

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Coordinated technical resources and priorities, keeping production support activities aligned with business needs.

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Applied **continuous improvement** methods, strengthening workflow **reliability** and employee capability across manufacturing operations.

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Supported safety and compliance objectives through disciplined operational management and clear **process documentation**.

Operations Specialist

Previous Manufacturing Solutions Group

June 2019 - December 2021

Madison, WI

Supported manufacturing initiatives through production data review, issue investigation, **process documentation**, and coordination with technical teams. Helped convert operational findings into corrective actions, standard work, and clearer decisions for production and engineering stakeholders.

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Reviewed production data during manufacturing initiatives, helping teams isolate recurring operational concerns.

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Investigated process issues with analytical methods, guiding corrective actions for improved manufacturing consistency.

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Maintained operational records and reports, giving stakeholders dependable information for improvement planning.

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Assisted technical teams with equipment and **quality** activities, translating findings into practical process updates.

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Contributed to **standard work** development, making routine execution clearer for production personnel.

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Communicated findings to production and engineering stakeholders, supporting timely decisions during improvement efforts.

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LANGUAGES



MY CAREER



- Senior PECVD Process Engineer at NanoFab Process Solutions (4.7 Years)
- Operations Specialist at Previous Manufacturing Solutions Group (2.5 Years)

PROJECTS

- PECVD Process Improvement Program** 📅 2025
Applied production data review, structured problem solving, and process documentation methods to support more consistent PECVD manufacturing performance. Work connected technical findings with practical operating improvements.
- Manufacturing Workflow Reliability Study** 📅 2021
Reviewed operational records, investigated recurring issues, and organized corrective action findings for manufacturing stakeholders. Results supported clearer standard work and more dependable production decisions.

LEADERSHIP & AWARDS

- Operational Excellence Recognition for contributions to disciplined manufacturing performance and workflow improvement.
- Continuous Improvement Achievement for practical process improvements supporting stronger operational consistency.

EDUCATION

Bachelor's Degree in Materials Science
University of Wisconsin Madison 🎓 GPA: 3.5 📅 2019 📍 Madison, WI
***Coursework:** Semiconductor manufacturing, thin film materials, process engineering, statistical analysis*

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2024
- PECVD Process Engineering Training 📅 2024

TECHNICAL SKILLS

- **PECVD Processing:** PECVD, thin films, GaAs, InP
- **Process Engineering:** Process ownership, process development, process optimization
- **Statistical Methods:** SPC, DOE, Gage R&R
- **Data Analysis:** JMP, Excel, production data analysis
- **Manufacturing Systems:** MES systems, production records, operational reporting
- **Thin Film Metrology:** Film thickness, process measurement, metrology analysis
- **Equipment Operations:** Equipment performance, equipment troubleshooting, process tools
- **Quality Methods:** Root cause analysis, corrective action, quality control
- **Manufacturing Operations:** Semiconductor manufacturing, production operations, standard work
- **Cleanroom Practices:** Cleanroom operations, safe operations, contamination control
- **Process Documentation:** Operating procedures, process records, technical documentation
- **Improvement Methods:** Lean manufacturing, Six Sigma, continuous improvement

PROFESSIONAL AFFILIATIONS

- Manufacturing Improvement Association Member, sharing practical process improvement perspectives with peers.
- Professional Development Mentor, supporting colleagues through structured growth and operational learning.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST