Derek Simmons

Assembly Technician

Assembly technician with 4 years building and testing medical devices, including 2 years of cleanroom assembly in an ISO Class 7 suite. Reads schematics and work instructions, handles troubleshooting of failed units at test, and keeps device history records audit-ready under FDA quality rules.

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EXPERIENCE

Assembly Technician

02/2024 - Present

North Star Medical Devices — Minneapolis, MN

Manufacturer of infusion pumps and patient monitoring equipment.

- Assemble and functionally test 45 infusion pump subassemblies per shift in the cleanroom.
- Diagnose failed units against schematics, returning 85% to stock without engineering help.
- Complete device history records for every build, with zero documentation findings in 2 FDA audits.
- Verify torque drivers and fixtures at shift start, catching 4 out-of-tolerance tools in 2025.

Assembler

06/2022 - 01/2024

Twin Cities Instrument Co. — St. Paul, MN

Builds laboratory analyzers and benchtop instruments.

- Built 60 lab instrument housings a week with hand tools and power tools to drawing.
- Logged yields and defect codes in Excel, giving engineering the data that cut gasket leaks by 30%.
- Wrote 6 redlined work instruction updates after finding missing steps during builds.
- Ran leak tests on 60 housings a week with a pressure decay tester, tagging and segregating every failure.

Production Associate

08/2020 - 05/2022

Northland Precision Molding — Brooklyn Park, MN

Part-time evening shift while earning an automation degree.

- Inspected and packed 1,200 molded medical housings per shift against visual standards.
- Changed over 2 press cells a week alongside the setup technician using hand tools.
- Recorded scrap and downtime on shift reports that supervisors reviewed each morning.

SKILLS

Cleanroom Assembly
Schematics
Troubleshooting
Device History Records
Torque Drivers
Hand Tools
Power Tools
Excel
Problem-Solving
Attention to Detail

EDUCATION

Associate of Applied Science

05/2022

Hennepin Technical College

Brooklyn Park, MN

Electro-Mechanical Automation

CERTIFICATES

IPC-A-610 Certified IPC Application Specialist

03/2024

IPC