

Samuel Petrov

R&D TECHNICIAN

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Summary

R&D Technician with 4 years building prototypes and running bench tests for medical device engineering teams. Fabricates fixtures with hand tools and power tools, does soldering on sensor assemblies, and handles troubleshooting on early builds. Keeps lab notebooks and Excel data clean enough for design history files.

Skills

- Soldering • Oscilloscopes • Hand Tools • Power Tools • Troubleshooting • Excel • Word • PowerPoint
- Attention to Detail • Problem-Solving Skills

Experience

R&D Technician

01/2024 - Present

North Loop Medical Devices

Minneapolis, MN

Product development lab for catheter and patient monitoring devices.

- Build **200+** prototype units a year for design verification from draft work instructions and engineer redlines.
- Fabricate test fixtures with hand tools, power tools and a benchtop mill, saving 3 weeks of outside machining.
- Complete soldering and potting on sensor assemblies, then verify signals with oscilloscopes before testing.
- Record test data in Excel and present weekly results in PowerPoint to a 9-person design team.

Lab Technician

06/2022 - 12/2023

Mississippi Bend Instruments

St. Paul, MN

Maker of fluid handling components for medical and lab equipment.

- Ran tensile, leak and flow tests on **40** sample lots a month to written test protocols.
- Diagnosed test stand faults and replaced worn parts, lifting equipment uptime to 98%.
- Wrote Word test reports and filed raw data for quality review within 2 days of each test.
- Maintained calibration labels and logs for 70 gauges and fixtures in the lab.

Machine Shop Assistant (Part-Time)

09/2020 - 05/2022

Northeast Metro Machine Works

Fridley, MN

Part-time job in a 20-person job shop during college.

- Measured and packed **500+** machined parts a week using calipers, micrometers and height gauges.
- Ran a manual mill and lathe for simple fixture parts under the lead machinist.
- Organized cutting tool inventory with reorder points, ending about 3 rush orders a month.

Education

Associate of Applied Science

05/2022

Dunwoody College of Technology

Minneapolis, MN

Electronics Engineering Technology

Certificates

IPC J-STD-001 Certified IPC Specialist

04/2024

IPC