

# Rocky Jewell

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U.S. Citizen

## Target Roles

Process Engineer • Test/Validation Engineer • Automation Engineer • Software Engineer (C#/.NET)

## Professional Summary

Data-driven engineer with 5+ years spanning electromechanical testing and C#/.NET software. Builds automated tests, data pipelines, and dashboards that improve uptime and throughput for large-scale automation systems. Hands-on debugger who turns test data into design decisions; comfortable in lab, on the line, and in code.

## Core Skills

Languages/Frameworks: C#, .NET (WinForms/Core), Python, SQL, MongoDB; REST, Swagger

Test & Hardware: HIL/DAQ, sensors, vision systems, oscilloscopes, multimeters, CNC, soldering (through-hole/SMT)

Methods: root-cause analysis, failure analysis, DOE, 5 Whys, Ishikawa; SOPs/Work Instructions; Agile/Scrum, Git, Azure DevOps

Data/Monitoring: Grafana, Power BI, advanced Excel; automated data collection & reporting

## Selected Achievements

- Qualified freezer operation to **-20°F** and eliminated camera fogging, bearing crush, and belt failures via design/test loops.
- Rover Rack Mover test results prompted a shift to a **tray-shuttle** architecture delivering **~10×** faster picks and lower traffic.
- Built multi-threaded C# diagnostics that sped robot recovery and increased system uptime.
- Created company test strategy and weekly exec dashboards that drove cross-team action items during scale-up.
- Authored the Work Instruction framework and produced remote-ready WIs for overseas builds during COVID.

## Work Experience

### Fulfil Solutions — Mountain View, CA

Software Engineer | 03/2022 – 03/2025

- Lead coder for ShopBots diagnostics; multi-threaded C# WinForms tools for recovery, calibration, and validation.
- Built Python/SQL/MongoDB pipelines and Grafana/Power BI dashboards for real-time ops and weekly executive reporting.
- Authored SOPs/runbooks; automated validation to bring machines to spec across sites.

Test Engineer | 12/2020 – 03/2022

- Owned environmental qualification to **-20°F**; solved fogging, bearing crush (thermal expansion), and belt failures.
- Led Rover Rack Mover fleet testing/electrical debug; findings supported tray-shuttle redesign (**~10×** speed, higher reliability).
- Created company test strategy and dashboards; presented weekly to executives to drive actions and design changes.

Engineering Technician | 11/2019 – 12/2020

- Built sub-assemblies end-to-end incl. custom brushless motors (soldering, stator/rotor) and VLSs; machined parts; operated ShopBots.
- Found assembly weak points and standardized fixes; trained new technicians and became go-to system expert.

### Piper Medical — Chico, CA

Assistant Engineer | 06/2014 – 12/2018

- Automated regulated test processes (Python/Excel VBA) and captured compliance/usability data.

## Education

Bachelor of Science (B.S.), Mechanical Engineering — California State University, Chico (2019)

## Certifications

Certified SOLIDWORKS Associate; Autonomous Diver – Level 2

## Keywords

Process Engineer, Test Engineer, Validation Engineer, Automation Engineer, Software Engineer, C#, .NET, WinForms, REST, Swagger, Python, SQL, MongoDB, Git, Azure DevOps, TDD, HIL, DAQ, Sensors, Vision, Grafana, Power BI, Failure Analysis, Root-Cause, DOE, Freezer/Cold-Chain Testing, Robotics, Automation.