Daniel Kowalczyk

Senior Test Engineer

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SUMMARY

Senior test engineer with 9 years of experience building production and validation test for RF and wireless hardware. Develops test stations in TestStand, LabVIEW, Python and C#, drives root cause analysis on field returns and works hands-on with oscilloscopes, spectrum analyzers and power supplies. Mentors engineers and writes clear test procedures.

EXPERIENCE

Senior Test Engineer

04/2021 - Present

Pacific Coast RF Systems

San Diego, CA

RF transceiver modules for satellite and defense customers, about 20,000 units a year.

- Own **6** production test stations in TestStand and LabVIEW for RF transceiver modules on 2 shifts.
- Run root cause analysis on field returns with design teams, lowering the return rate from 1.8% to 0.6%.
- Write Python and C# drivers for spectrum analyzers, power supplies and signal generators across 3 test racks.
- Mentor 3 test engineers and review every new test procedure before it goes to the production floor.

Test Engineer

07/2017 - 03/2021

Mesa Wireless Devices

Carlsbad, CA

Wireless sensor maker with 2 contract manufacturing sites.

- Built automated test fixtures for wireless sensors, raising throughput from 40 to 110 units per hour.
- Troubleshot board-level failures with oscilloscopes, cutting rework scrap by $120K a year.
- Analyzed production yield data in MATLAB and set statistical test limits for 12 products.
- Wrote validation test plans for FCC pre-compliance testing on 5 new designs before lab submission.

Test Engineering Intern

06/2016 - 08/2016

Sorrento Valley Microwave

San Diego, CA

Summer internship with an RF amplifier maker.

- Calibrated 40 power meters and network analyzers and logged results in the lab database.
- Wrote a LabVIEW report tool that saved technicians 2 hours a week.
- Tested amplifier gain and output with spectrum analyzers on the final test bench.

SKILLS

- **Python**
- **LabVIEW**
- **TestStand**
- **C#**
- **MATLAB**
- **Oscilloscopes**
- **Spectrum Analyzers**
- **Power Supplies**
- **Root Cause Analysis**
- **Communication Skills**

EDUCATION

Bachelor of Science

San Diego State University

Electrical Engineering

San Diego, CA

05/2017

CERTIFICATES

Certified LabVIEW Developer (CLD)

NI

08/2019