



Gabriel Lepoutre

Senior Test Technician



Professional Summary

Senior Test Technician seeking to grow into an embedded systems engineering role. Proficient in hardware/software systems test procedure design, implementation, and execution. Experienced in software development, hardware root cause analysis.



Work History

2022-03 -
Current

Senior Test Technician

Gardyn, Bethesda, MD

- Designed and executed procedures for embedded software testing of Gardyn Home from initial SW/HW integration to final system validation & refurbishment lifecycles
- Full-stack development of custom hardware testing application used to test and validate over 13,000 new devices
- Root cause analysis and refurbishment validation of 2,000+ hardware components
- Provided analysis feedback to leadership for product improvements
- Interpreted hardware component and electronics circuit diagrams to provide effective testing procedures to junior technicians
- Built and managed Gardyn's hardware R&D laboratory and supervised a team of 3 electronic analysts and test technicians
- Collaborated with engineering, software, and support teams to provide end-user with seamless and fulfilling experience



Contact

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Skills

Raspberry Pi

Very Good

Test procedure
development

Very Good

Troubleshooting/root cause
analysis

Very Good

Debian Linux

Good

SQL

Average

Schematics interpretation

Average

Test lab management

Good

2020-09 -
2022-03

Electrical Technician

Gardyn, Bethesda, MD

- Designed and implemented all of Gardyn's hardware analysis/refurbishment procedures and documentation
- Built 3 iterations of hardware R&D labs
- Root cause analysis, validation, and refurbishment of all returned defective electronic components (100s of devices)
- Created and managed 2 large scale Jira projects for defective hardware analysis and product-wide R&D
- Used JQL to highlight important analysis data and create dashboards for company leadership teams
- Created and managed various internal Confluence documentation spaces used company-wide
- Wrote many of Gardyn's Python-based manual and automated test scripts used in validation of all newly manufactured products
- Used data gathered from SQL queries to re-design user-facing data processing algorithms used on 1000s of fleet devices
- Collaborated with multi-disciplinary teams to solve various product design and manufacturing defects including; USB cameras systems, LED PWM issues, erroneous I2C sensors, and more.

Software

Python

 Very Good

HTML/CSS

 Good

JavaScript

 Average

React

 Average

Rust

 Basic

C/C++

 Basic



Education

2018-01 -
2021-03

Bachelor of Science: Computer Networking & Cybersecurity

University of Maryland - University College -
Hyattsville, MD

2015-01 -
2017-12

Associate of Science: Computer Science

Anne Arundel Community College - Arnold, MD



Interests

- Self-hosted home network lab
- Web-development
- Electronic sound design
- MSP430 development
- Electronic circuit breadboarding