

Lee Yu-Hsing

Network Validation / Test Automation Engineer

Switch & Router Product Validation | Network Automation

Taipei, Taiwan | Portfolio | GitHub

PROFESSIONAL SUMMARY

Test & Validation Engineer with recent experience validating Switch/Router products across L2/L3, functional, performance, compatibility, reliability, and security dimensions. Uses Spirent TestCenter for network traffic, packet transmission, and performance validation, with prior C#/WinForms/ATE test-automation experience. Extending this formal foundation toward Network Automation through portfolio development.

CORE SKILLS

NETWORK / PRODUCT VALIDATION

Switch & Router Product Validation | Spirent TestCenter (traffic, packet, performance) | L2/L3 | Functional Testing | Performance Testing | Compatibility Testing | Reliability Testing | Security Testing | Regression Testing | Release Validation

TEST AUTOMATION / SOFTWARE

Test Automation | C# | WinForms | Visual Studio | Automated Test Equipment (ATE) | Product / Specification Testing | Communication Stability Testing

PROFESSIONAL EXPERIENCE

Planet Technology (普萊德科技股份有限公司)

November 2024 - May 2026

Test & Validation Engineer

- Validated PoE, PON, and Data Center Switches plus Wi-Fi 7 AP/Router products across L2/L3, functional, performance, compatibility, reliability, and security testing.
- Used Spirent TestCenter for network traffic, packet transmission, and performance validation; created and executed test cases and planned test environments.
- Reproduced and analyzed customer issues; verified firmware/software fixes, ran regression and release validation, and collaborated with R&D and PM.

BK Taiwan Precision Instruments Co., Ltd. (台灣百科精密儀器股份有限公司)

May 2021 - June 2024

Software Engineer

- Developed and maintained C#/WinForms automated test software and ATE for product, functional, specification, and communication-stability validation.
- Built operator interfaces and test utilities; reproduced and verified issues with hardware/firmware teams across CAN bus, USBVCP, USBTMC, GPIB, Socket, and LXI.

EARLIER EXPERIENCE

WIN Semiconductors Corp. | Senior Process Engineer

June 2012 - October 2020

Wintek Corporation | Etching Process Engineer

May 2011 - May 2012

Conquer Electronics Co., Ltd. | Senior Researcher

July 2009 - April 2011

Built transferable strengths in structured problem solving, process and abnormality analysis, data-supported improvement, automation/IT collaboration, and disciplined cross-functional execution.

Selected Project - Network Automation Lab

Personal portfolio project | [GitHub repository](#)

- Python/pytest network-validation workflows produce deterministic JSON, HTML, and text evidence for automated checks and human review.
- GitHub Actions CI/CD, negative-path testing, explicit mock/dry-run/report-only boundaries, and Flask/Jinja plus Next.js/React reviewer interfaces demonstrate portfolio capabilities.

EDUCATION

National Taipei University of Technology

September 2007 - July 2009

Master's Degree in Materials Engineering