

Klay A. Adams

Electrical Engineer |

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Objective

Test Engineer, in the semiconductor industry....

Experience

Texas Instruments - Processors

Product Test Engineer 06/2023 – Present

Experience developing and sustaining test programs on the Advantest V93000 and Teradyne UltraFLEX Plus ATE platforms. Skilled in multiprobe and final test hardware design, bring-up, validation, qualification, and automation of data analysis and documentation. Coordinate with overseas A/T sites for correlation, release, and sustaining efforts. Fab and Failure Analysis support for 28nm, 16nm, 5nm, and 8nm silicon designs.

Program Management Engineering 01/2025 – Present

Support and manage cross functional teams in the execution of bringing new designs to market. Extensive use of Jira, SAP, and other internal tools to achieve release to market in a timely manner.

Texas Tech University - ECE Department

Stockroom Employee 08/2022 – 05/2023

Facilitated in the ordering and selection of electrical components to help students in the completion of their projects in the electrical engineering department.

Textron - Bell Flight

Manufacturing Engineer Intern 08/2019 – 03/2020

Implemented changes to manufacturing documentation to reduce cost using knowledge of fabrication processes, tooling, production equipment, assembly methods, quality control standards, and material usage. Determined root cause of failures through statistical methods and recommended corrective changes to processing methods and planning. CAD software usage for tool modeling and supporting structures used in aerospace manufacturing environments.

Education

Texas Tech University, Lubbock

Bachelor of Science in Electrical 08/2023 – 05/2023 Computer Engineering

3.64 GPA, Cum Laude, Minor in Mathematics, and IEEE Involvement. Coursework focused on digital design and electronics with extensive knowledge in bench equipment usage and rapid prototyping.

Skills

ATE and Semiconductor Manufacturing Equipment

Familiar with multiple automated test equipment (ATE) platforms including Advantest V93K (Smartscale, Exascale), Teradyne UltraFLEX Plus, and TI VLCT for production test development and execution. Tokyo Electron and Accretech 300mm Wafer Probers. Advantest and Cohu Automatic Temperature Control Handlers.

Programming & Scripting

Scripting in Python, Bash, VBA, PHP, and C++ to automate workflows, data processing, and report creation — including L^AT_EX. Also a strong background in VHDL and Verilog digital design languages with SPICE modeling experience as well.

Hardware Diagnostics, Fault Isolation & Repair

Diagnose and repair load boards, contactor, and probe cards. Skilled with oscilloscopes, SMUs, power supplies, and other bench instruments.

PCB Design & Prototyping

Design, lay out, and assemble custom PCBs in KiCad, Cadence, and Eagle EDA tools. Proficient in schematic capture, layout, and hands-on debugging using soldering stations, microscopes, and reflow tools.

Personal Projects & Hobbies

Homelab Infrastructure

Operate a self-managed hyperconverged storage and virtualization cluster using enterprise-grade equipment. Usage including but not limited to Networking, local AI inferencing, gaming, and home automation.

Home Automation

Design and implement smart home systems using open-source platforms like Home Assistant. Integration of IoT devices, custom automations, and energy monitoring solutions for improved efficiency and convenience.