VY VAN

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OBJECTIVE

A professional engineering position utilizing my experience and education to contribute to the organization's goals and objectives

PROFESSIONAL SUMMARY

- 10 years of Product engineering /Characterization support for multiple projects for high speed performance semiconductor solutions including Trans-Impedance Amplifiers (TIA), Laser Drivers, Signal Conditioners, Ethernet Switches

- Successfully completed projects on time with good quality and within budget by utilizing my knowledge in Engineering Management

- Proactive, self-motivated, reliable, team player with excellent interpersonal skills

- Effective written, verbal and presentation skills

TECHNICAL SKILLS

- Strong knowledge of high speed, mixed signal ICs

- Mastered skills in Python, SQL, data wrangling, data visualization, hypothesis testing, and machine learning

- Hands-on experience with various test equipments

PROFESSIONAL EXPERIENCE:

VITESSE SEMICONDUCTOR CORP   2003 to present

Product Engineering

- Strong knowledge in IC manufacturing processes, successful and timely transition of many products into volume production as well as driving sustaining activities to improve the cost competitiveness of mature products

- Define project scope, schedule, and develop test/characterization plans for Bench and ATE. Identify risks, make decision on many levels, track and follow up on commitments

- Day-to-day coordination between test, characterization, validation, marketing and IC design teams from specification to testing silicon in the lab

- Perform failure analysis, coordinate product qualification, and design burn-in boards for HTOL qualification test

- Communicate product technical status to the core team, change specifications based on characterization results, release documentation

- Calculate temperature guard band for test limits, and perform single insertion study over temperature to decide final temperature for production testing

- Perform cost analysis and understand process sensitivity

- Work closely with IC design teams for new design revision

- Responsible for full production release of numerous devices

- Mentor junior engineers

Characterization Engineering
- Accountable for all tasks required for characterization flow of new products across extreme temperature, frequency, voltage and wafer process on Bench or ATE using automated and manual setups

- Characterize product performance against the datasheet and characterization plans

- Perform data analysis using JMP/Excel, and generate characterization report

- Work with various products such as 10Gbps Trans-Impedance Amplifiers (TIA) and Laser Drivers, Multi-rate Channel Extenders (Signal conditioner) up to 14.5 Gbps, Ethernet Switches with 1G/6G Serdes

Test Engineering
- Released 10.7 Gbps TIA product family to production including die level validation, at-speed 100% testing, software coding & debugging

- Utilized GGB probe card for manufacturing and test engineering

- Provided guidance to operators

EDUCATION
- Springboard Data Science Career Track, Certification 2023, 6-month intensive course in data science, machine learning, Python, and SQL
Portfolio Projects: https://github.com/vv333333/DS
- M.S. Engineering Management 2009, California State University of Northridge, CA
- B.S. Electrical and Computer Engineering 2004, California State University of Northridge, CA

REFERENCES
Available on request