Ravi Shah

Field Application Engineer

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SKILLS

- Power Electronics
- Schematic Review
- Debugging
- Troubleshooting
- Oscilloscopes
- Python
- MATLAB
- Linux
- Excel
- Presentation Skills

EDUCATION

Bachelor of Science 05/2021

San Jose State University

San Jose, CA

Electrical Engineering

SUMMARY

Field application engineer with 5 years in power electronics, supporting design-ins of DC-DC converters and battery management ICs at server, EV charger and industrial customers in Northern California. Reviews schematics and layouts, leads bench debugging with oscilloscopes, and has helped win 18 new designs worth $14M in lifetime revenue.

EXPERIENCE

Field Application Engineer

06/2023 - Present

Silicon Mesa Semiconductor — San Jose, CA

Analog and power management chip company selling through direct sales and distribution.

- Secure **18** design-ins at 12 customers since 2023, projected at $14M in lifetime revenue.
- Review 60 schematics and PCB layouts a year, catching grounding and loop-stability problems before first build.
- Lead on-site debugging with oscilloscopes and current probes, closing 90% of customer escalations within a week.
- Write Python scripts on Linux benches that automate efficiency and thermal sweeps, cutting evaluations from 2 days to 6 hours.

Product Test Engineer

07/2021 - 05/2023

Bayshore Power Devices — Milpitas, CA

Power semiconductor maker of buck converters and gate drivers for industrial markets.

- Characterized **9** buck converter ICs across temperature, recording 50,000 data points per device.
- Modeled control loops in MATLAB to match bench results within 5% for datasheet curves.
- Built Excel yield reports for 4 products and led troubleshooting of 3 tester failures with the fab team.
- Prepared evaluation board guides used by 25 customer engineers during early product sampling.

Electrical Engineering Intern

06/2020 - 08/2020

Coyote Valley Electronics — San Jose, CA

Summer internship with the hardware test team of an industrial power supply manufacturer.

- Tested **120** production power supplies for ripple and load regulation using oscilloscopes and electronic loads.
- Rewrote 6 test procedures after debugging fixture wiring faults that caused false failures.
- Logged test data in Excel and flagged 3 recurring component defects to the quality engineer.