Elliot Brandt

Electrical Engineer

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SUMMARY

Electrical engineer with 5 years of experience in consumer IoT and industrial controls, working in Altium, embedded C and power electronics. Designed the battery charging circuit for a smart lock that passed UL testing on the first submission, and debugged an EMI issue that had failed FCC pre-compliance twice. Comfortable owning a board from schematic through certification.

EXPERIENCE

Electrical Engineer — Latchwell Smart Home

Austin, TX · Mar 2023 – Present

- Designed the battery charging and power management circuit for a Wi-Fi smart lock in Altium, passing UL 2089 testing on the first submission.
- Diagnosed an EMI issue that had failed FCC pre-compliance twice, tracing it to a switching regulator layout; the fix passed on the next test with 6 dB of margin.
- Wrote embedded C firmware for a capacitive touch sensor on an STM32, cutting false-trigger rate from 1 in 200 presses to 1 in 3,000.
- Ran thermal imaging on 5 board revisions under continuous load, identifying a hot regulator that was shortening component life, and respec'd it before production.

Electrical Design Engineer — Ferrowatt Controls

Austin, TX · Jun 2021 – Feb 2023

- Designed a 4-layer motor control PCB for an industrial actuator, meeting a 3A continuous current rating confirmed by bench test.
- Built and ran a 72-hour burn-in test rig for 50 units per batch, catching 8% of early failures before they reached customers.
- Updated 40 schematics and BOMs to meet a component obsolescence deadline, qualifying 3 replacement parts without a board respin.

SKILLS

Design: Altium Designer, OrCAD, schematic capture, PCB layout (2-8 layer)

Embedded: Embedded C, STM32, Arduino, basic FreeRTOS

Power and analog: Switching regulators, battery charging circuits, op-amps, power budgeting

Test: Oscilloscope, multimeter, thermal imaging, EMI/EMC pre-compliance, UL/FCC test support

CERTIFICATIONS

Certified LabVIEW Associate Developer (CLAD), 2022

EDUCATION

B.S. Electrical Engineering, University of Texas at Austin, 2021

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