

Dan Kisling

Senior Electrical Engineer

PROFILE

Creative and curious electrical engineer ready to design your next product. Experience designing medical, industrial, and consumer electronic systems with multiple products in use by patients and end-users today. Adept at designing medium complexity (2-8 layer) PCBs from initial concept to full production and integration into complete systems. Excellent debug and troubleshooting skills. Expert technical communicator. Demonstrates strong initiative and loves to tinker. Applies an iterative approach to product development. Passionate about collaboration, mentorship, and bringing whimsy to the workplace.

EXPERIENCE

Senior Electrical Engineer, Delve; Madison, WI 2021-Present

- Designed systems for a broad range of clients, primarily in the medical space, as well as consumer and industrial applications.
- Focused on human-centric design, collaborating closely with industrial design, mechanical engineering, digital design, software/firmware, and human-factors teams.
- Engineered products from initial concept through to production.
- Developed requirements and traceability matrices.
- Tested and verified designs to meet technical and regulatory requirements.
- Designed dozens of PCBs ranging from simple layouts to highly space-constrained, high-power, and high-speed designs.
- Served as technical lead on multiple projects, ensuring technical requirements were met across disciplines.
- Acted as co-studio lead, focusing on employee morale, studio equipment, tour demos, and leading weekly stand-up meetings.

Electrical Engineer, Automation Components Inc, Middleton WI 2020-2021

- Designed new and updated products for the HVAC industry.
- Developed “lowest-trip-point self-powered ECM switch” including system requirements, automated validation and verification testing, simulation and analysis of analog circuitry.

Applications Engineer, Texas Instruments, Dallas TX 2015-2020

- Technical Lead on isolated CAN networks.
- Helped customers design and troubleshoot various ICs from Texas Instruments.
- Trained worldwide sales force on products, certifications, testing, and EMC performance.
- Developed automotive CAN demo and demonstrated at Electronica (Germany, 2018) and CES (Las Vegas, 2019).

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EDUCATION

Lehigh University, Bethlehem, PA - B.S. Electrical Engineering 2016

SKILLS

Schematic capture and printed circuit board design (Altium), system design, requirement definition, EMC testing and certification, documentation, simulation, python, Matlab, Arduino, NI VISA, soldering, design for manufacturing, verification and validation, Powerpoint, Excel, Word

PUBLICATIONS

How to Design Isolated CAN Systems With Correct Bus Protection

TPA324x and TPA325x Post-Filter Feedback (PFFB)

Multi-Device Configuration for TPA32xx Amplifiers

ACTIVITIES

Electronics Hobbyist - Projects include: interactive light displays, IoT sensors, wireless DMX node, electronic puzzles

Sewing (bow ties), Camper Van Restoration, Pinball repair