

Logan Sweet

Experience

Electrical Systems Integration Engineer – **Meta** NYC · July 2021 - May 2024

Schematic lead for Orion EMG wrist wearable MLB:

- Collaborated cross-functionally to define project goals, identify risks & unknowns, and evaluate tradeoffs to enable hardware for a new product category
- Drove definition of system requirements to balance user-facing latency and power efficiency tradeoffs
- Designed power architecture and selected components for efficiency and measurement accuracy for a novel analog sensor system
- Owned the MLB schematic, including component selection, IO assignment, schematic entry, and organization of design reviews & OK2FAB for XFN approval
- Designed a modular development board with swappable test cards for digital & analog architecture studies, including schematic, layout, vendor engagement, component sourcing, and board bringup
- Collaborated with engineers across 3 orgs as the wrist hardware EE team DRI for consumer accessories

I was MLB schematic lead until Meta reorged during P1 build, when I joined the NTI team

Project owner for a PCBA manufacturing NTI:

- Defined KPIs, schedule, and budget for a new technology investigation project
- Conducted build feasibility studies and evaluated the NTI's impact on cost, timeline, and technical risk versus overall product benefits
- Collaborated with engineers across Meta organizations to meet RF, mechanical, and reliability requirements
- Performed layout studies for HDI & mSAP PCB technologies
- Created PCBA schematics & layouts to evaluate component & vendor quality
- Managed relationships and drove concurrent builds with four custom component and PCB manufacturers

Electrical Design Engineer – **Skydio**

Redwood City, CA · June 2020 - June 2021

- Lead electrical engineer on the X2 enterprise drone controller
- Responsible for PCBA & FPCA schematics, including component selection, alternate qualification, and supervising layout engineers
- Collaborated with firmware, mechanical, and reliability teams to identify and resolve cross-functional design issues
- Designed and validated a custom battery solution with a pack vendor and defined gas gauge settings
- Served as primary liaison for a local SMT and test fixture manufacturer
- Partnered with in-house manufacturing team to streamline early production FATP

Electrical System Integration Engineer – **Google**

Bay Area · Oct 2018 - June 2020

- Owned design of PCBAs & FPCAs, including schematic design and directing simulation and layout
- Responsible for NFC, audio, and wireless charging subsystem integration

Signal Integrity Intern – **TE Connectivity**

Harrisburg, PA · May - Aug. 2017

Lead Mechatronics Course TA – **Olin College**

Needham, MA · Fall 2016 & 2017

Engineering Fellow – **MIT Open Style Lab**

Cambridge, MA · June - Aug 2016

Product Management Intern – **Phone2Action**

Washington DC · Feb - May 2016

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Education

Olin College of Engineering

BS Electrical & Computer Engineering

May 2018 GPA: 3.6

Skills

Technologies

SPI, UART, I2C, I3C

USB3, USB PD

NFC

Displayport

Gas gauge programming

Lab

Rework/ hand soldering

Board bringup & debug
(oscilloscope, DMM, power supply, logic analyzer, VNA, etc.)

Systems

Power architecture

Component selection

Hardware validation

Test procedure development

Factory test fixture design

Process documentation

PCBA

HDI & mSAP PCBAs

SiP technology

FPCAs

BOM alternate management

Software

OrCAD

Concept/ Design Entry HDL

Allegro

TI BQStudio

PowerSI

SPICE simulation