


Logan Sweet

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 logansweet

Experience

Electrical System Integration Engineer, EMG wearables @ Meta

NYC · July 2021 - May 2024

Responsible engineer for the Orion EMG wrist wearable MLB schematic through the first formfactor build:

- Designed a modular development board for early digital and analog architecture studies, including selecting and managing a prototype vendor, purchasing components, and board bringup
- Worked with teams across the organization to determine system requirements and identify risks & unknowns for a new product category
- Worked with vendors for custom silicon solutions
- Drove definition of system power state requirements that made appropriate tradeoffs between user experience and power efficiency, then designed power architecture and chose components for a novel analog sensor system
- Created the MLB schematic, then organized and ran design reviews & OK2FAB for cross-functional design approval

Project owner for a PCB manufacturing NTI:

- Conducted feasibility studies to evaluate the impact of the NTI on cost, project timeline, and risk
- Managed relationships and drove concurrent hardware builds with four component and PCB vendors
- Designed test boards to evaluate component and vendor quality
- Created internal documentation for other Meta teams to use when creating a similar design

Electrical Design Engineer @ Skydio

Redwood City, CA · June 2020 - June 2021

- Lead electrical engineer on the X2 enterprise drone controller
- Drove layout and validation for 9 PCBAs
- Responsible engineer for schematics, including component selection, alternate qualification, and OK2FABs
- Worked closely with firmware, mechanical, and reliability teams to identify and solve cross-functional design issues
- Defined and validated a battery solution with a pack vendor and designed gas gauge settings & limits
- Acted as point of contact for a local SMT and test fixture manufacturer
- Interfaced with the in-house manufacturing team to streamline early production FATP

Electrical System Integration Engineer, Pixel Phones @ Google

Mountain View, CA · Oct. 2018 - June 2020

- Worked with cross-functional teams on the development of PCBAs and FPCAs
- Owned design of FPCs, including directing simulation and layout engineers
- Responsible engineer for the schematic of a main logic board variant
- Traveled to China to support a factory build

Signal Integrity Intern @ TE Connectivity

Harrisburg, PA · May 2017 - Aug. 2017

- Designed custom high speed connectors for clients and characterized PCB connectors with TDR and VNA
- Created test procedure documentation

Principles of Engineering Lead Course Assistant @ Olin College

Neehdam, MA · Fall 2016, Fall 2017

- Served as lead of the student course assistant/ TA team for a sophomore mechatronics course
- Led grading and rubric development, held student office hours, and served as the instructors' point of contact

Engineering Fellow @ MIT Open Style Lab

Cambridge, MA · June 2016 - Aug. 2016

- Worked with occupational therapists and fashion designers to design a modular jacket for a quadriplegic client
- Performed materials research on candidate fabrics

Product Management Intern @ Phone2Action

Washington DC · Feb. 2016 - May 2016

- Worked with engineering, sales, and customer success teams to streamline the monthly software release process
- Created documentation of new feature requirements and facilitated internal & external product feedback

Education

Olin College of Engineering

BS in Electrical & Computer Engineering

Graduated May 2018

GPA: 3.6

Skills

Software: OrCAD & Concept schematic capture, Allegro, PowerSI

Hardware: Manual PCBA rework (0201 & larger), EE bringup & debug lab tools (oscilloscope, DMM, logic analyzer, etc.)