

EE/System Engineering Lead

Sensel is seeking to hire an experienced and creative System Engineering Lead to lead system and electrical development efforts for Sensel's product lines, based on the world's most advanced touch technology.



Responsibilities

- Work with Product Management to define electrical architecture
- Develop HW and SW tests suites to validate functionality of new features prior to release
- Create schematics and lay out PCBs using Cadence Allegro and Pulsonix CAD tools
- Work with fab and assembly suppliers to get boards fabricated and assembled, locally and overseas
- Work with distribution and IC suppliers to choose and procure parts
- Troubleshoot and resolve hardware issues in the factory and from the field
- Develop functional tests to support factory builds. Work with CM to resolve test failures.
- Work with mechanical engineers and firmware developers to create industry-leading touch devices
- Lead EMC and Regulatory process
- Lead development of custom batteries for future products, support existing battery in production

Requirements

- Skilled in touch technology, mobile devices, power and battery management, board design, signal integrity, and analog circuitry
- Have designed one successful mobile product from concept/architecture through mass production
- Experienced in selecting components and creating electrical schematics and layout
- Understanding of common board and system level communication interfaces (UART, I2C, SPI, USB)
- Knowledge of analysis tools for design rule checking, signal integrity, circuit troubleshooting, etc.
- Knowledge and experience using standard electrical test tools including bench power suppliers, oscilloscopes, digital multimeters and function generators.
- Understanding and experience with PCB manufacturing process & DFM rules
- Understanding and experience with PCBA assembly process and DFA rules for SMT
- Experience with EMC testing and best design practices. Resolve issues arising from regulatory testing.
- Experience designing systems with consideration for reliability. Understanding of common modes of failures for electronics during reliability testing, including HALT and HASS.
- Experience and understanding of common factory tests, including flying probe, Xray and ICT.
- High quality technical communicator and leader. Able to distill and communicate technical issues to non-technical team members and management
- Experience with product lifecycle management (PLM) and generating electrical bills of material
- Ability to manage projects and deliver according to a schedule
- BS degree in Electrical Engineering

Bonus Skills

- Experience with BLE and RF system design principles
- Experience with resistive force sensors
- Experience reading and writing Verilog or VHDL to support development of custom ASIC
- Experience with HDI designs and flexible PCB

About Sensel

Sensel is a VC-backed startup based in Mountain View, CA. It was founded in 2013 by Ilya Rosenberg and Aaron Zarraga. The focus of the company is to develop the next generation of input devices utilizing their patented Pressure Grid technology. Pressure Grid technology enables new user interactions through the added dimension of multi-touch pressure. Sensel launched its first device, the Sensel Morph, on Kickstarter in mid-2015, closing the campaign at over 700% of the original goal and is now focused on

production of the Morph as well as developing third party applications of Pressure Grid Technology.