

Senior iPhone Display Mechanical Engineer - Subject Matter Expert

Job Summary:

Design next-generation displays for iPhones, Apple Watch, and iPods as a Mechanical Engineer in the Flat Panel Display Team. Develop cutting-edge display technologies, processes, components, and modules. Act as a focal point among multiple world-class design and production teams to deliver mechanically robust displays from initial concept to mass production.

Responsibilities

*Drive material and processing technology to support the next generation of display technologies
Define the display shape based on optical, electrical, assembly process, and space constraints
Create and refine technologies to improve the design, construction, and reliability of displays.
Specify mechanical and performance requirements for fit, quality, and reliability.
Visit factories to review assembly process, integration, and handling of displays and components at all stages to maintain quality and achieve high assembly yield.
Lead failure analysis and present detailed reports to drive solid corrective actions.
Communicate data and changes to product design, reliability, and senior management groups.
Identify open mechanical design issues and drive them to closure in a timely fashion.
Deliver the necessary design documents and data for engineering builds and initial ramp.
Address issues from initial ramp and field returns.*

Key Qualifications

*5+ years of relevant industry experience
High energy, detail-oriented personality with a passion for learning
Excellent prioritization, cross-functional teamwork, and written and verbal communication
Solid understanding of mechanical engineering fundamentals: properties of materials, solid mechanics, beam statics, Newtonian physics, and thermodynamics
Use of the scientific method: hypothesis development, experiment design, and drawing conclusions based on data
Familiarity with manufacturing techniques such as roll-to-roll processing, die-cutting, and micro-replication; also with polymer & metal-film materials suitable to such processes.
Experience with simulation and analysis methods (FEA, CFD, and statistical tolerance analysis)
Willingness and ability to travel (~15% travel, primarily Asia)*

Preferred Qualifications

*Experience performing and/or designing mechanical and environmental test methods
Familiarity with flexible-substrate electronics (e.g. touch panel, flexible printed circuit, chip-on-film)
Foreign language skills (Mandarin, Japanese, or Korean)
Analysis software experience: MATLAB, JMP, etc
3D software expertise: Solidworks, Pro/Engineer, or NX (at least 3 years)
Experience developing electro-mechanical designs for high-volume, reliable products*

Education

MS or BS in Mechanical Engineering