Position Summary for Opto-mechanical Engineer

The candidate must be an energetic, self-starter to perform mechanical systems engineering for state of the art near eye imaging systems. This includes monocular and binocular systems that integrate micro displays with optics, illumination, and electronic components. The individual must demonstrate effective interaction with a multidisciplinary team and deliver custom designs and solutions for a variety of eyewear needs. Projects will include designs for deliverable product, Research and Development, Tooling and Fixturing support for production, as well as hands on model building and rapid prototyping.

Duties and Responsibilities

- Responsible for creating and maintaining drawings and supporting documentation for optical components.
- Considering manufacturability in design, sourcing, inspection, and assembly of optical systems and subsystems.
- Consider alignment, fixturing and tolerancing of optical subassemblies and systems.
- Analyze product specifications and performance requirements to determine design approach and form factor for optical subassemblies and overall product design.
- Provide Engineering support including troubleshooting to manufacturing and production groups - from prototypes and proof of concepts to low volume (thousands) to higher volumes (100K+).
- Design, assemble, and test prototypes and mock-ups using 3D printer and other rapid prototyping techniques.
- Design and implement production tooling and fixtures as well as perform some manufacturing engineering to transition new designs to Production and provide ongoing production support.
- Act as primary interface between Optical Engineering and Mechanical Engineering/Manufacturing.
- Interface with domestic and foreign manufacturing partners.

Experience Required

- Masters or Bachelor’s degree in Mechanical Engineering or equivalent.
- Minimum of 5 years of Opto-Mechanical design experience.
- 3D CAD modeling experience in Solid Works required; Advanced surfacing and complex shape modelling a plus.
- Demonstrated ability to apply sound Mechanical Engineering principles to the design and development of new products.
- Strong organizational, time management, and leadership skills; and the ability to successfully manage multiple tasks in a fast-moving environment.
- Experience with complex, tightly tolerated mechanical designs required by many opto-mechanical interfaces.
- Strong interpersonal and communication skills with the ability to solve problems, multi-task and be a hands-on leader.
- Understanding of optical component manufacturing techniques.
- Understanding of optical metrology methods.
- Familiarity with Zemax or other optical design programs a plus.

Vuzix Corporation is an equal opportunity employer. We consider applicants without regard to race, color, religion, creed, gender, national origin, age, disability, marital, veteran, or any other legally protected status. We are committed to recruiting and employing the best talent available in the display technology areas.