



CURRICULUM VITÆ

ROB MILLER

“Rob Miller is a highly skilled Mechanical Engineer with over 25 years of experience in product design and development across industries such as medical, consumer electronics, and industrial sectors. He has a strong background in designing injection molded plastic and sheet metal parts, as well as handheld devices and assembly/engineering fixtures. Rob is well-versed in manufacturing processes, materials, and industry standards. Rob Miller’s extensive knowledge and experience make him well-suited for product liability cases.”

M.Sc., B.Sc. Mechanical Engineering

1. BIOGRAPHY

Rob Miller is a highly skilled Mechanical Engineer with over twenty-five years of professional experience in product design and development across various industries, including medical, consumer electronics, and industrial sectors. He has demonstrated expertise in all phases of the product lifecycle, from initial design concepts to final production.

In addition to his mechanical engineering expertise, Rob Miller's extensive knowledge and experience make him well-suited for product liability cases. With his thorough understanding of product design, development, and manufacturing processes, Rob possesses the ability to assess and evaluate potential product defects or failures. His expertise in industry standards and regulations, such as ISO 13485 and 21 CFR Part 820, enables him to assess whether a product meets the required safety and quality standards. Furthermore, Rob's familiarity with engineering materials and manufacturing techniques allows him to analyze and identify any design flaws, material defects, or manufacturing errors that could contribute to product liability issues. With his technical expertise and comprehensive understanding of product development, Rob Miller is an asset in providing valuable insights and expert opinions in product liability cases.

Rob is an expert in Computer-Aided Design (CAD) and has extensive proficiency in SolidWorks and Creo software, enabling him to create intricate and precise designs. He also possesses advanced knowledge in Finite Element Analysis (FEA), allowing him to analyze and optimize designs for structural integrity and performance.

In addition to his CAD and FEA expertise, Rob is proficient in LabVIEW and MATLAB, enabling him to develop and implement data acquisition systems and perform sophisticated data analysis. He has over fifteen years of experience working in a laboratory setting, utilizing a wide range of sensing equipment for data collection, including force, pressure, LVDT, temperature, and strain sensors.

Throughout his career, Rob has focused on designing injection molded plastic parts for medium to high-volume production. With over ten years of experience in this area, he has a deep understanding of the intricacies involved in designing for injection molding processes.

Rob also possesses significant experience in designing sheet metal parts, ranging from indoor and outdoor enclosures to specialized components like leaf springs and large panels. His expertise extends to handheld devices, where he has contributed to the design and development of innovative products such as needle-free injection devices and the first MP3 player with a 10 GB hard drive and LCD touch screen.

Furthermore, Rob has a track record of designing numerous assembly and engineering fixtures, including automation equipment driven by programmable logic controllers (PLCs) and computer-controlled lifecycle testing equipment. His familiarity with various manufacturing processes and engineering materials enables him to select the most appropriate solutions for specific design requirements.

Within the medical industry, Rob has specialized knowledge of elastomeric materials for unique sealing applications. Notable examples include the design of a biocompatible silicone O-ring for dynamic, high-pressure sealing and a low durometer custom open-cell foam seal for outdoor plastic enclosures.

Rob is well-versed in industry standards and regulations, including ISO 13485 and 21 CFR Part 820. He has processed numerous Engineering Change Orders (ECOs) and has generated thousands of fully dimensioned 2D drawings according to ASME Y14.5, incorporating Geometric Dimensioning and Tolerancing (GD&T) principles.

Rob Miller holds a strong educational background in Mechanical Engineering, having obtained both a Master of Science and a Bachelor of Science degree from the University of Washington in Seattle, WA. He completed his Master's degree in Mechanical Engineering in 1995, further enhancing his technical knowledge and expertise in the field. Prior to that, he obtained his Bachelor's degree in Mechanical Engineering in 1990, providing him with a solid foundation in the principles and practices of mechanical engineering.

Throughout his academic journey, Rob honed his analytical and problem-solving skills, gaining a deep understanding of mechanical systems, design principles, and engineering principles. His education laid the groundwork for his successful career and enabled him to apply his knowledge effectively to real-world challenges in various industries.

With his academic achievements and extensive professional experience, Rob Miller exemplifies a well-rounded mechanical engineer with a solid foundation in theory and practical application.

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