

## Curriculum Vitae

### FRED PETERSON SMITH

Mr. Smith has been in consulting engineering since 1980. He is currently president of Alpine Engineering & Design, Inc., a company he started in 2000. Previously, he spent 20 years doing consulting work with F.S. New Products, Inc. During his consulting career, Mr. Smith has directed the development and improvement of a wide variety of products including trucking equipment, refuse equipment, hydraulically operated mobile equipment, specialty axles and suspensions, zip lines amusement rides, exercise equipment, radio frequency and magnetically shielded enclosures, rotomolded containers, aerial lifts and a variety of consumer products.

Mr. Smith's expertise extends to many areas of product design; including concept generation, design, stress calculations, finite element analysis, modeling, prototyping, testing, manufacturing and assisting in the patent process. Mr. Smith has qualified and been used as an expert in product liability, breach of warranty, negligent misrepresentation and intellectual property cases.

As Vice President of Engineering at the MRI Support Systems Corporation, Mr. Smith was responsible for the design of RF and magnetic shields manufactured for magnetic resonance imagers and supervised the development of new products. He collaborated with other engineers and architects to assure the shielding interfaced well with the complete project and tested the performance of the completed shields.

Mr. Smith worked for F.S. New Products, Inc. and attended college concurrently from 1980 through 1984. In 1984 Mr. Smith completed his B.S. in Mechanical Engineering and graduated with distinction from California State University, Long Beach, where he was on both the Dean's and the President's Honor Lists.

Mr. Smith began his engineering career in the engineering department of Sargent Industries, Huntington Park Division where he performed engineering design changes, accumulated and organized technical information for record purposes and submittal to customers on government related projects. He wrote instruction manuals for the preparation of Certification Data Sheets and model parts lists.

Mr. Smith is a registered professional engineer in the States of California, Utah, Nevada and Alabama, license numbers M025127, 177027-2202, 016907 and 28224 respectively.

Mr. Smith is certified by the Board of Certified Safety Professionals as a Certified Safety Professional in comprehensive practice, CSP No. 18890. He has certified as a trainer in 1st aid, CPR and AED. He has certified as a train-the-trainer for lift truck operators. He has also certified as a trainer for aerial work platforms and aerial boom lifts. He has also certified as an overhead, mobile crane and rigging inspector. He has completed the OSHA 30 hour Hazard Recognition Training and the OSHA Health and Safety courses. He has taken a number of continuing education courses including Intellectual Property Issues, Risk Management and Assessment, Pole Top Rescue, Confined Space and Lock Out/Tag Out.

Mr. Smith has been a member of the Utah Safety Council, National Safety Council, American Society of Mechanical Engineers, the Society of American Value Engineers, the National Honor Society, and Tau Beta Phi, a national engineering honor society. He was nominated for membership in Phi Kappa Phi, and has been named to Who's Who in California, Who's Who in the West and the national registry of Who's Who in Executives and Businesses. He also received an award for being one of Utah's top inventors.

Mr. Smith is an inventor with over 70 patents and a number of patent applications pending.