

Project Manager and Engineer Project Manager and Engineer Senior Mechanical R&D Engineer and Project Manager San Antonio, TX Dynamic, problem-solving self-starter with proven track record of successful project management, engineering, and team leadership. Seeking to transition to a challenging design, testing, or manufacturing-oriented position and to utilize business and engineering acumen to produce better, more efficient products and technologies. Work Experience Project Manager and Engineer The Acorn Group - San Antonio, TX April 2001 to March 2012 Utilized business acumen, project management techniques, and advanced mechanical engineering knowledge to lead several unique site-specific property improvement projects in residential, ranch, warehouse and commercial ventures at a time. Planned, sourced, funded, and modified projects for specific criteria. Employed outside-of-the-box engineering solutions for a wide variety of technical issues and projects resulting in reduced project expenses. Developed methodology to build \$500k of property access roads for \$100k, leaving a more robust, longer-lasting roadway than conventional methods. Completed projects on time and under budget, frequently increasing ROI 50-100% while building customer and client relationships. Negotiated legal obstacles and state/county requirements. Claims Adjuster & Database Administrator Neodyme Technologies Corp 1999 to 2001 Medical device insurance adjusting and claims processing. Negotiated avg 30% savings on device repair costs. Developed database to track \$2M of claims and improved claims processing time by 50%. Education Masters of Science in Mechanical Engineering University of Texas at San Antonio - San Antonio, TX 2006 to 2012 Bachelors of Science in Mechanical Engineering University of Texas at San Antonio - San Antonio, TX December 2003 Bachelors of Business Administration in Business Management University of Texas at San Antonio - San Antonio, TX December 1998 Skills CAD Finite Element Analysis Materials testing Hands-on design, fabrication, machining Compressible fluid dynamics Thermodynamics and heat transfer Mechanical design and prototyping Composite materials design and analysis Pneumatic/hydraulic system design and repair 3D printing Use, maintain, and repair off-highway machinery Welding (GMAW, GTAW, gas, spot, arc) Electronic circuits, electrical systems Technical writing, documentation, BOM, CAPA Lean and Sustainable manufacturing concepts Additional Information PROJECTS Built, tested, and

validated a Kolsky Bar materials impact testing device for UTSA ME Dept. Designed, built, and tested a unique hydraulic gate system. Cost-saving improvements to high-speed carbide forestry-cutter teeth. 50% savings/unit. Designed and built unique equipment to increase water flow rates from natural springs. 100% flow increase. Saved \$50,000. Added min. \$40,000 value. Designed and built custom pneumatic systems for off-highway equipment repairs. Designed, sourced, and installed photovoltaic-powered water well saving \$71,000 in capital costs. Novel valve design for internal combustion engineer. Designing belt-less continuously variable transmission rated for constant input-power.

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