

Michael James Van Voorhis

Mobile Phone: 801-641-5638

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OBJECTIVES

As a Professional Engineer: apply design, analysis / simulation, construction, purchasing, manufacturing, inspection, code compliance and project management experience and skills to innovative projects involving facilities, processes, products and proposals such as those for renewable energy, munition manufacture-to-disposal life-cycle, aeronautical and astronautical clients.

WORK EXPERIENCE**Senior Engineer**

6/2004 – 8/2004 and 12/2017 to 11/2017

El Dorado Engineering | Salt Lake City, Salt Lake, UT

Designed magnesium extraction, AP Rocket Motor, Chemring Energetics, Camp Minden, and OrbitalATK process equipment with simulations, trade-studies, budget reviews, layouts, drawings, P&IDs, specifications and defining tests. Prepared proposals and won Hawaii Marine Corps design work for blast shelter training facility with firing range overhead baffles. Assigned company Facility Security Officer for US Dept of Defense specifications.

Softgoods Engineer

9/2004 - 12/2010

Bigelow Aerospace | Las Vegas, NV

Aerospace and Defense

Lead engineer for inflatable spacecraft air barrier, restraint layer and micro meteorite and orbital debris shield components currently under development for commercial space habitat including Boeing BEAM (ISS), Genesis (on orbit) and Sundancer (planned) spacecraft.

Mechanical Engineer

5/2003 – 5/2004

EG&G Technical Services | Idaho Falls, ID

Management Consulting Services

Evaluated processes for mustard agent demilitarization at Tooele Chemical Weapons Disposal Facility. Prepared analysis, plans, budget proposals and work orders for facility modifications. Performed statistical analysis of process timeline and agent stockpile composition for HD campaign that destroyed more than 5400 tons of agent.

Product Engineer

4/2001 – 5/2003

Varian Medical Systems | Salt Lake City, UT

Manufacturing - Other

Supported new and sustaining development of medical x-ray tubes for computed tomography and digital mammography applications. Performed numerous technical duties for design, development, manufacturing, procurement and qualification testing using solid modeling, numerical analysis, statistics, and reliability database evaluation skills. Awaiting approval of two patents for x-ray tube improvements. Developed refurbishment criteria for recycling returned product components to enable significant cost savings without compromising product life.

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Engineer

4/2000 – 4/2001

Groen Brothers Aviation | Salt Lake City, UT

Aerospace and Defense

Developed test aircraft for Hawk-4 and Hawk-6 versions of gyroplane for FAA certification. Contributed to fuel system, cabin heat, landing gear and rotor pre-rotation system design using SolidWorks, AutoCAD, Inventor, and MathCAD applications. Performed FMEA analysis and certification test plans.

Engineer

6/1983 – 4/2000

Alliant TechSystems ATK | West Valley City, UT

Aerospace and Defense

Supported Trident-II, Titan-IV, Delta-IV and numerous test projects as a designer, development engineer and tool engineer. Prepared drawings and specifications with detailed design and analysis justifications for customer approval. Performed MRB for discrepant products and materials. Supported development of the High Energy Computed Tomographic (HECT) inspection system with follow-on justification for federal funding support to Lockheed Missiles and Space. Also provided technical support to the Automated Ultrasonic Inspection Systems (AUIS) installed at Iuka, MS to inspect large composite parts for Boeing. Provided field support liaison engineering to the Fleet Ballistic Missile facilities at Bangor, WA, Charleston, SC and Kings Bay, GA. Evaluated and supported FBM flight tests from Cape Canaveral, FL and supported disposal efforts for Polaris and Poseidon rocket motors. Maintained missile motor database for reliability and program planning purposes. Assisted with investigations of motor malfunctions and failures.

EDUCATION and LICENSES

Professional,

Present – 5/1996

Utah Professional Engineer # 180453-2202 since 1991

Pennsylvania professional engineer, inactive since 2015

El Dorado Engineering | West Jordan, Utah

Facility Security Officer: JCAVS, NCIAS, e-Fcl, and PII methods

Alliant Techsystems | West Valley City, Salt Lake, UT

HAZWOPR, Potential Variation Analysis, Failure Modes Effects and Analysis, Simulation Analysis and Modeling, Explosives Safety, Total Quality Management, Crosby Quality Fundamentals, Statistical Process Control

University of Utah | Salt Lake City, Salt Lake, UT

Viscoelastic Materials, Fracture Mechanics, Theory of Plates and Shells

Washington State University | Pullman, Whitman, WA

BS Mechanical Engineering

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SKILLS

MS Excel and Open Office	Expert
AutoCAD & Inventor	Expert
Solidworks	Intermediate
Algor and CadrePro FE (structural and fluids)	Intermediate
Access and Open Office DB	Intermediate
MS Office VBA	Expert
HTML/JS/CSS	Intermediate
Web host ASP	Intermediate
MS Visio CAD	Intermediate
