



## Inventure Engineering, LLC

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### ANTHONY J. SENN, PE

#### EXPERIENCE

- 25 Years

#### EDUCATION

- BSME, California State University Chico, 1991

#### HIGHLIGHTS

- Licensed Idaho Professional Engineer, Mechanical Discipline
- Twelve US Patents Granted and several pending
- Multiple designs systems include 3-D modeling and Finite Element Analysis
- Journeymen machinist on both manual and CNC equipment
- Business owner and operator for sixteen years with constant growth
- Strong understanding of machining and manufacturing such that designs are ready to build

#### EXPERIENCE SUMMARY

Mr. Senn (Tony) is an experienced Senior Mechanical Engineer with work experience in a wide variety of fields. He is an expert in the design of mechanical assemblies and machinery, with a diverse background in materials and manufacturing methods. He is also skilled in multiple CAD and 3-D design software platforms, finite element analysis and CAM software. These skills allow Tony to produce unique solutions that not only solve the design problem, but are often ready for manufacture.

#### **Inventure Engineering, LLC: Boise, ID**

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Mr. Senn Is the Owner and President of Inventure Engineering, LLC (IE). At IE, Mr. Senn has specialized in new product development and traditional machine design. Consulting primarily with inventors and smaller companies, their initial concepts are optimized using modern 3-D design software, traditional engineering and actual prototype creation, with some projects running through production in our in house machine shop. Inventor projects include: an adjustable rifle stock, inflatable tent, security gun holster, children's educational toys, portable oxygen generator, and numerous others. Mr. Senn consults in manufacturing, fixture/tooling design and has many years' experience in digital scanning and semiconductor equipment designs. Mr. Senn's additional responsibilities include running a full CNC machine shop, managing business affairs, intellectual property protection, sales/marketing, bookkeeping, purchasing and materials procurement, etc. Prototyping experience includes machining (CNC and manual lathe and milling machines), welding (gas, MIG, TIG, plastic, solvent), and fabrication using a variety of plastics and metals. The combination of Mr. Senn's formal education, practical manufacturing skills, and many years' experience on a large variety of projects, has created a desirable individual.

#### **POWER Engineers: Boise, ID**

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Mr. Senn worked as a senior engineer responsible for project management and mechanical engineering activities with a large consulting engineering firm. Hired to help create and grow a semiconductor consulting division, his responsibilities range from locating and bidding prospective jobs, through design, build and startup at the client's facility. Notable accomplishments include a \$500k single wafer spin cell project for a large semiconductor OEM and planning/bidding: hydroelectric plant control update, gas turbine 'peak demand' power plants and facilities control systems. Tony was also responsible for managing an engineering team at a client's facility while leading a large design and eventual installation project.



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### **Tactical Design Labs: Boise, ID**

Mr. Senn was the Vice President in charge of product development, intellectual property, and facilities for a start-up company focused on improving tactical equipment for law enforcement and military. His was responsible for managing state of the art holster development projects from concept sketches through tooling and manufacturing. Duties include project planning/scheduling, specification development, employee management, supplier selection/interface, purchasing, machine shop oversight, component and assembly testing, assembly process development, reliability, quality assurance and management of intellectual property portfolio. Technical activities involve design for injection molding and assembly, FMEA, solid modeling, FEA, part count optimization, traditional/CNC machining, strength of materials and change control management. Led by Tony, and combining traditional engineering skills with hands on management philosophy, the technical team achieved synergistic output while enjoying the daily activities.

### **SCP Global Technologies: Boise, ID**

Mr. Senn was the technical team leader of complex automation and mechanical design projects in parallel with solo design work relative to large scale semiconductor equipment manufacturing. He successfully managed and implemented projects to include: innovative concept generation, planning, scheduling, vendor evaluation, sub-contractor management, formal presentations, employee supervision and on time deadline completion. His technical strengths include: traditional engineering, finite element analysis, reliability engineering, fluid handling systems, chemical compatibility, airflow management, plastic part design, manufacturing engineering, design for injection molding and machine automation.

### **Healthtek Inc: Auburn, CA**

Mr. Senn managed all technical aspects of high volume / low yield, disposable, medical product manufacturing. Placed in charge of plant operations and technical employees, he was faced with a management position where all team members were 15+ years his senior. This required Tony to establish essential management skills, develop a rapport with the employees, and allowed them to work as a team. Tony was quick to accept the challenges of: plant layout, tooling design, fabrication, prototyping, and machine rebuild adding PLCs, as well as new product R&D. Related tasks involved reliability testing, part design for injection molding, ultrasonic and RF welding, electrical, pneumatics, metal welding, and traditional machining practices.

### **NEC Electronics: Roseville, CA**

At NEC, Tony was responsible to maintain and improve high volume, semiconductor manufacturing assembly processes. He successfully created and managed yield improvement projects to include: operator training, tool and component selection, product flow design, specification writing, preventive maintenance programs, fixture development, and many other facets of assembling semiconductors. Significant contributions included reducing pre-saw wafer breakage by half and demonstrating 100% machine up time during an entire quarter, saving an estimated \$750k in less than one year.