

SCOTT GREGORY

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[HTTP://SCOTTGREGORY.INFO/PORTFOLIO/](http://SCOTTGREGORY.INFO/PORTFOLIO/)

OBJECTIVE

Position as a Mechanical Designer

SUMMARY OF QUALIFICATIONS

- 30 years experience in mechanical design, drafting and manufacturing
- 10 years experience using SolidWorks thru version 2009
- 18 years experience using AutoCAD thru version 2009
- Design complex assemblies and simple piece parts using 3D solid modeling and fully dimensioned 2D detail drawings

PROFESSIONAL EXPERIENCE

1990 - Present AURA, Inc National Solar Observatory Sunspot, NM
Mechanical Supervisor – Instrument Development Lab

- Mechanical designer of professional research telescopes and scientific astronomical instrumentation projects using AutoCAD and SolidWorks
- Work in engineering, drafting and manufacturing teams to take projects from conceptual stage to final end use products
- Point of contact for scientists, project leaders and engineers in a mechanical capacity
- Mechanical designer/drafter for observatory telescope and scientific instrumentation projects
- Design, draft, fabricate, assemble and trouble-shoot complex assemblies
- Additional duties include supervising and coordinating all machine shop, weld shop, plating room, paint booth, stock room and supply room activities
- Setup, program and operate CNC mills, conventional mills, lathes, grinders and jig bores

1989 - 1990 Recognition Equipment, Inc Irving, TX
Machinist – Class A

- Precision R&D prototyping of high speed currency handling machines
- Setup, program and operate CNC, NC and conventional mills

1987 - 1989 Manpower/Texas Instruments, Inc Dallas, TX
Machinist – Class A

- Aerospace part machining
- Automated semi-conductor manufacturing equipment and assemblies
- Design and build fixtures and tooling necessary to fabricate complex parts
- Setup, program and operate CNC, NC and conventional horizontal/vertical mills and jig bores

1986 - 1987 Great Southwest Marketing/Meco, Inc Dallas, TX
Machinist – Class A

- Aerospace sub-contracted part machining
- Plastic injection mold machining
- Maintenance and support for screw machines and plastic injection machines
- Setup and operate conventional horizontal/vertical mills, engine lathes, grinders and jig bores

1980 - 1986 National Supply Co/Armco Steel, Inc Kilgore, TX
Machinist – Class A

- High pressure wellhead equipment machining
- Setup and operate conventional horizontal/vertical turret lathes, engine lathes, horizontal mills and drill presses

EDUCATION

1974 - 1978 Thomas Jefferson High School Dallas, TX
Diploma

- Industrial Cooperative Training
- Metal shop and electronics shop
- Mathematics, algebra, geometry, trigonometry

RELATED JOB SKILLS

- Management, design, drafting and engineering skills
- Interpretation and application of geometric dimensioning and tolerancing specifications per ASME Y14.5M
- Familiar with ANSI and ASME drawing and drafting standards
- Interpretation and specification of various MIL, ASM, ASTM, SAE and Federal standards in accordance with job requirements
- Implementation of configuration control systems
- Selection and application of different types of metals and non-metallic materials to meet design requirements
- Component part selection and specification according to design requirements
- Outside vendor selection and statement of work preparation
- Precision inspection techniques and procedures
- Online and offline CNC and NC programming
- General welding skills including torch, arc, MIG and TIG
- Various anodizing, plating and post-processing procedures and specifications
- Complex precision mechanical devices and instrumentation
- Trigonometry, geometry and mathematics skills
- Use of AutoCAD beginning with R9; including installation, setup and customization; as well as AutoLISP programming for drawing aids and tools
- Use of SolidWorks beginning with release 2000
- Use of file vault systems such as Conisio and PDMWorks
- Use of CAM software packages such as Ultimix and SolidCAM; including post-processor writing
- Computers, operating systems and various software packages including Microsoft Office, AutoCAD, SolidWorks, Mathcad, SolidCAM, Photoshop, Acrobat, etc.
- Knowledge of web site building including Apache, MySQL, Perl, PHP, JavaScript, SSI, CSS and HTML