



# LIGI Tool & Engineering, Inc .



**AS9100 Rev. C**



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# About **LIGI**



**LIGI TOOL & ENGINEERING, INC.** was founded in 1983 to serve the various electronic industries with precision machined aluminum and plastic parts. LIGI quickly became a preferred supplier for neighboring customers. It now serves all industries nationwide, with precision machining and industrial engineering solutions. With its innovative state-of-the-art CNC equipment, **LIGI** has become one of South Florida's leading machine shops.

Since its beginning, the company has prided itself in supplying high quality, competitively priced machined parts, to some of the world's most prestigious companies. **LIGI** has invested significant time and effort in cultivating lasting relationships with customers. Its strengths lie in the ability to help customers transform ideas and requirements into first-rate manufacturing solutions. This process originates on cutting-edge software platforms and state of-the-art machining technologies. As machining industry's hallmark of craftsmanship, **LIGI** is the solution to many customer's machining requirements.

# **LIGI Quality Control “Inspection Department”**



**CNC– Vision & Touch Probe CMM, (MICRO-VU 1604 UC, 41” X 65” X 15.7”)  
(For The Larger Parts)**



## **(Inspection Equipment)**

- 1 – Coordinate Measuring Machine (BROWN & SHARPE)(22" x 30" x 24" on "Z" axis)**
- 1 – CNC– Vision & Touch Probe CMM, (MICRO-VU 1604 UC, 41” X 65” X 15.7”)**
- 2 – Electronic Height Gages (24”) BROWN & SHARP “TESA HITE”**
- 1 – Electronic Height Gage (24”) “FOWLER”**
- 1 – Laser Micrometer, Aeroel, 0-1”**
- 1 – Hardness Tester, Wilson Model 4JR**
- 2 - 72” x 96” Surface Plates**
- Assorted Sets of Pin Gages, Block Gages, “DELTRONIC” Gage Pins ( 0.0001” Increments)**

# LIGI Equipment



**CNC Milling**



**CNC Lathes**



**5 Axis Milling,  
( X = 71", Y = 41" )**



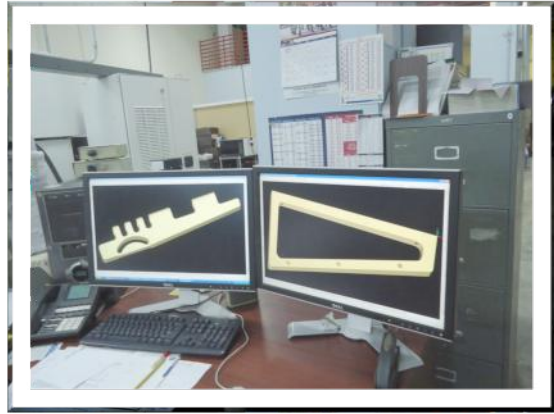
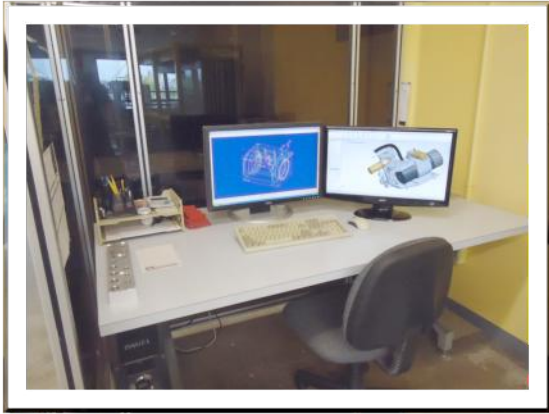
**Wire EDM Multi-Axis  
( X = 19.5", Y = 14.5", Z = 16" )**

**Whatever your manufacturing requirements, our state-of-the-art CNC equipment and advanced CAD technology can see your job through, from start to finish. We can build to your drawings, or design new solutions that will help you be more productive and more profitable.**

**Our computerized, multi-axis Milling and Turning Centers, CNC Sheet Metal and Wire EDM departments can produce precision machined parts time after time, on time, every time. Anything that we can depict on our computer screens, we can most likely, machine. In fact, we can even machine your photograph on metal. Ask us about our patented "Ligiography" process.**

**From design - to prototype - to production; whether it is a simple 2D part or a complex 5 axis machining operation, we can make it happen!**

# Engineering Software Used At **LIGI**



**AlphaCam Advanced 3D, CAD/CAM System  
SolidWorks 2014**

The Boeing Company  
P.O. Box 21233  
Kennedy Space Center, FL 32815-0233

3 September 1998

**SUBJECT: LETTER OF RECOMMENDATION**



To Whom It May Concern:

In June 1998, The Boeing Company recognized LIGI TOOL & ENGINEERING, INC. for their outstanding performance in fulfilling their subcontracts to manufacture critical parts for the International Space Station. LIGI fulfilled all contractual obligations during the performance of all of these subcontracts.

LIGI TOOL & ENGINEERING, INC. has demonstrated a personal commitment to The Boeing Company as well as the Space Station project overall. Their state-of-the-art machine shop allows LIGI to operate very efficiently; delivering a quality product, on time, while still staying very competitive in the market place. The high level of professionalism, technical expertise and customer support conveyed by every employee are the characteristics THE BOEING COMPANY looks for in a supplier.

LIGI's company literature has been distributed to the Boeing divisions producing Space Station hardware. The BOEING COMPANY would not hesitate to allow LIGI TOOL & ENGINEERING, INC., the opportunity to bid on future projects.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly J. Betty".

Kimberly J. Betty  
Senior Subcontracts Administrator  
The Boeing Company  
Telephone: 407-867-3698  
Fax: 407-867-3798

CERTIFICATE OF REGISTRATION



# LIGI TOOL & ENGINEERING, INC.

3220 SW 15<sup>th</sup> Street  
Deerfield Beach, Florida 33442 USA

*American Global Standards, LLC issues this certificate to the firm named above, having assessed and approved the firm's quality management system and finding the system conforms to the standards of:*

## AS9100 Rev. C

*The quality management system is applicable to the following:*

### **Manufacture of Precision Machined Parts & Assemblies per Customer Specifications for the Commercial & Aerospace Industries**

*This approval is subject to the firm maintaining its system to the required standards, which will be monitored by AGS. In the issuance of this certificate, AGS assumes no liability to any other party other than the firm named above, and then only in accordance with the agreed upon Quality System Assessment Agreement.*

Certification Number: AGS/US091113-1  
Original Approval: June 24, 2009  
Date of Issue: September 11, 2013  
Date of Expiration: September 10, 2016



For and On Behalf of American Global Standards, LLC

1187 Coast Village Road, Suite #495, Montecito, CA 93108 USA  
Tel: 617-838-4648

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## Press Release

FOR IMMEDIATE RELEASE

### **Local manufacturer hopes to soar above a failing industry.**

July 14, 2009

Deerfield Beach, FL - Amidst an economy in which the manufacturing industry has been hit hard, a local manufacturer's recent international certification may set it apart from the host of shops that recently have closed their doors. LIGI Tool & Engineering announced today its certification to AS9100, the International Aerospace Quality Standard. In an industry that has seen employment fall by 1.9 million during the recession - the certification is critical for machine and tooling companies interested in producing parts for major manufacturers. Large manufacturers such as Boeing and Lockheed Martin require subcontractors to be AS9100 Certified in order to work on certain aerospace parts.

"This certification will increase our customers' confidence that LIGI's process-oriented approach will meet or exceed their highest quality requirements", explained Domenic Mucciacciaro, LIGI founder and CEO. The stringent requirements of AS9100 certification assures that compliant manufacturers are in lockstep, providing the same level of high quality products and services. "Attaining certification represents LIGI's endless commitment to producing precision workmanship and parts of the utmost quality, particularly in the aerospace industry," Mucciacciaro said.

In 1999, LIGI was heavily involved in the manufacturing of precision-machined parts for the International Space Station. As a result of delivering 100 percent defect-free parts, the company was nominated by Boeing to compete in, and subsequently won, the Small Business Association's "Award for Excellence" for the U.S. Southeastern sector. LIGI's AS9100 certification could assist in expanding its relationship with Boeing and other large manufacturers. AS9100 is based on the ISO9001 :2000 quality management standard, but entails an additional 80 requirements and 18 augmentations specific to the aerospace industry.

Founded in 1983, LIGI TOOL & ENGINEERING, INC. is a leading machine shop in South Florida. It operates state-of-the-art, fully computerized manufacturing equipment, and offers vast know-how, capability and manufacturing expertise.

For more information, please contact Lisa Pumariega at (954) 332-2921 or [lisa@ligi.com](mailto:lisa@ligi.com), or visit [www.ligi.com](http://www.ligi.com)