

# Resume of Leonard M. Andersen – Experienced Engineer Gas Turbine

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Electrical gen- aircraft site Residence 46 Alexander Avenue, Yonkers, NY

**Gas Turbine Engineer** – The new technology has been developed with water into a flow of hot gas in a swirling pattern most recently with a focus on internal combustion engines , fired boiler stacks and, water swirled into gas turbines combined cycles for more fuel efficiency. Beyond more fuel efficiency there is pollution control of PM 2.5 and PM 10 particulate in coal firing etc.. Since 2009 3 Patents and presentations at ASME Power Energy, Mar 19 2017 and to ASME S. Texas Section Gas Turbine Technical Chapter 2017 and at Turbo Expo 2019 Phoenix . Took practicalaero.com "Intro to Jet Engines" course.

## Electrical Gen – Aircraft Engine Engineer Ten years of presentations and !

**Welding Inspector CWI Engineer** - Since August 2014 Buildings Shops Etc. New York City and Ohio

**Journalist** Media – 23rd World Petroleum Congress Houston 2021 world-petroleum.org

**Construction Project Manager** - Engineer October 2000 to May 2014 - Welding Man / Geotechnical Engineer ( LU 1556 practical ) at NYCDOT Division of Bridges - Review of drawings of bridges, field inspection of bridges, doing inspection at the facilities that produced heavy welded and bolted steel assemblies for bridges. The projects which participated in were in the range from 100 million USD to 700 million USD. Last 20 years I have spoken Chinese every day at work. Worked in Spanish language in Mexico, Spain etc., and Arabic in the Saudi Arabia for near a year, Norwegian in Norway etc. for about six months and worked in the Russian language. Journalism, I covered all the World Petroleum Congress [www.worldpetroleum.org](http://www.worldpetroleum.org) events for last +20 years as an accredited journalist. My patents are five in welding, two in petroleum, one in lubrication, two issued 8,671,696 & 9,376,933 and one pending in smoke stack , internal combustion engines , Gas Turbine Technology ( Total 11 ) . My background includes +20 years membership in [www.spe.org](http://www.spe.org) ( two papers ) / [www.aws.org](http://www.aws.org) one paper . In petroleum, I have liquid oxygen injection patents and experience. Active in NYC Civil Engineers Society [www.ascemetsection.org](http://www.ascemetsection.org) & ASME [www.asmemetsection.org](http://www.asmemetsection.org) & ASME International Gas Turbine Institute (IGTI) presenting & American Institute of Chemical Engineers [www.aiche-metrony.org](http://www.aiche-metrony.org) & Society of Petroleum Engineers New York and NE Petroleum Section [http://nyne.spe.org](http://http://nyne.spe.org) & American Welding Society [www.aws.org](http://www.aws.org), & Society of Tribologist and Lubrication Engineers [www.stle.org](http://www.stle.org) . **Currently working in NYC area Civil**

## Engineering – Welding Inspection

Education

**SEC Registered Representative** ( Stock Broker) Qualified Security Training Corporation NYC trained  
**BSCHE ( BS of Chemical Engineering )**, University of Arizona, Tucson, Arizona

*Diploma in Marine Diving*, National Polytechnic College of Engineering and Oceanering, Wilmington C A

*Associates of Applied Science of Chemical Technology*, Westchester Community College, Valhalla NY

*US Army Engineering School*, Fort Belvoir VA, Society of Petroleum Engineers, Short Courses

Practical Aeronautics: "Intro to Jet Engines" / TGA Steam & Gas Turbine 2-Day Training Event in Charleston, SC / Gas Turbine day long ASME courses / American Welding Society, Course leading to CWI (Certified Welding Inspector) qualification / [www.uspto.gov](http://www.uspto.gov) coursed Inventor Writer of Patents, Wrote More Than eleven Patents and 100 Invention Disclosures and Replied To official Patent Office Actions under the "Supervision" of Patent Attorneys. Patent Attorney Ed Ellis [www.LeasonEllis.com](http://www.LeasonEllis.com) . Former patent firm Darby & Darby - Rob Sullivan ! Fields of Experience / Construction Project Management / Welding engineering for structural steel applications with an emphasis on bridges / chemical engineering and +20 years part time journalism at world class petroleum events ! Presented at ASME 2017 Power Energy paper “New Tech Combined Cycle Gas Turbines (CCGT) - Analysis of Water Swirled Into Gas Turbine Tech.” Patents 8,671,696 & 9,376,933 & P A NO. 20170306843 / continuation in part 17/233,993 Filed April 17<sup>th</sup> - METHOD AND APPARATUS FOR INCREASING USEFUL ENERGY/THRUST OF A GAS TURBINE ENGINE BY ONE OR MORE ROTATING FLUID MOVING (AGITATOR) PIECES DUE TO FORMATION OF A DEFINED STEAM REGION , available at [www.uspto.gov](http://www.uspto.gov) Mentioned as plus 5 to 10%

internal combustion engines – smoke stacks , Told total fuel efficiency 88% combined cycle more electricity out per unit gas or petroleum liquid , 35% on regional flight ! Seeking challenges and would consider all employment opportunities short and long term.