Jon W. Teets

7556 E. Sweetwater Ave.
Scottsdale, AZ 85260
480-664-7882
tmapower@cox.net

Professional Summary: Over 30 years of engineering / management experience in small gas turbine engines. Designed, manufactured, built and test, both in aerospace and commercial applications. Skilled in all aspects of engineering for design, analysis and test of product from concept through production. Have created business plans to attain capital and negotiate Entrepreneur projects. MS Mechanical Engineering.

Highlights of Qualifications

- Compressor Design
- Radial Turbine Design
- Rotor Dynamic Analysis
- PMG Alternator Design
- Spur Gear Design
- Oil & Fuel System Design
- Entrepreneur
- Program Management
- Microturbine Inventor

Professional Experience

TMA Power Co Scottsdale, AZ / Hobe Sound, FL 2003 - Present

President

- 50% ownership of all aspects of TMA Power Co (co-owner, co-inventor, co-investor)
- Business Plan
- Budgetary and financial control
- TMA Power Co. Model 70 hybrid microturbine engine technology demonstrator engine design, analysis, assembly and test
- PMG alternator design and analysis
- Compressor Impeller and Radial Turbine stage design and analysis
- Rotor dynamic analysis and rotor design
- Oil pump assembly design and analysis

Elliott Energy Systems (EES) Stuart, Florida 1995 - 2002

Co-founder and Co-owner / Elliott Energy Systems(EES)

- Co-inventor of the EES microturbine family of gas turbine /alternator gen-sets. Co-designed, manufactured, built and tested the TA45 (45kw) and TA60 gas turbine gen-sets. Design was expanded to larger units, the TA80 and TA100.
- As an engineer responsible for cycle analysis, oil and fuel system design, compressor and turbine stage designs, bearing selection and rotor dynamics.
- Received two patents for US and European countries

Universal Turbine Energy Systems (UTES) Florida, California, Arizona 1993 – 1995

Vice President Engineering

- Co-owner, co-founder and director of UTES.
- Co-designed, manufactured, built and tested the first micoturbine.
- Business Plan

Sundstrand Power Systems San Diego, California 1979 - 1993

Principal Project Engineer

- Advanced technology group small gas turbine engine design, development and phase into production.
- Responsible for military helicopter APU production lines and product improvement programs.
- Design, analysis, manufacture, assembly and test of a 35 Kw geared gas turbine generator set special project (JMK Co.). Business plan written for outside funding
- General aviation turbine engine (GATE) 500 HP reduction drive design special project (Cyclone Enterprises Inc.). Business plan written for outside funding.

Garrett Turbine Engine Company Phoenix, Arizona 1975 – 1979

Development Engineer:

- Analysis, design, fabrication and test of advanced turbine stage rotor assembly
- Analysis, design, fabrication and test of a 1.3 Kw closed cycle gas turbine engine for space satellite project
- Ford Motor Company automotive gas turbine engine with ceramic hot end components. Project / program proposal technical and budgetary.

Textron,LycomingDivision Stratford,Conn. 1974

Associate Engineer

- Advanced study and testing on ALF 502 combustor liner.
- Some work M1A1 Abrams track vehicle

Education

Fracture Mechanic Course at Graduate School Arizona State University
M.S. Mechanical Engineering – University of Connecticut 1975
B.S. Aeronautical Engineering- St. Louis University , 1972

Patents

60/459,861	Electrical power generating system, (2) turbine rotor spools, & (1) alternator rotor (4/2/03)
6,605,928	Electrical system for turbine/alternator common shaft
6,314,717	Electrical generating system having annular combustor
PCT/US97/22-007	International patent application #, US patent # to issue 6/2000 EES Microturbine engine

Licenses

FAA Airframe and Powerplant #2071716

Professional Memberships

ASME