

Richard A. Proeschel, P.E.

Key Personnel



Experience:

Over 35 years of engineering and management experience in design, analysis, integration, manufacturing and test of propulsion & power systems

At Boeing and Rockwell International:

Performed system design analysis and test for the Space Shuttle Fuel Cell system and the Fuel Cell Cryogenic Power Reactant storage system. Led the Fuel Cell and Auxiliary Power System test group during the Shuttle development program

Provided project management for the International Space Station Organic Rankine Cycle Solar Dynamic Power Module, Photovoltaic Solar Arrays, Batteries, Power Generation Controls, and Thermal Control Systems

President & Founder of *Proe Power Systems, LLC*

Registered Professional Engineer #PE.71779 in Ohio

Publications:

US Patent #7,028,476 “Afterburning, Recuperated, Positive Displacement Engine

US Patent #5,894,729 “Afterburning Ericsson Cycle Engine”

US Patent #6,390,185 “Annular Flow Concentric Tube Recuperator”

US Patent #6672,063 “Reciprocating Hot Air Bottom Cycle Engine”

SAE Paper 1999-01-2880 “Afterburning Ericsson Cycle Engine”

ASME Paper GT-2002-30406 “*Proe 90*TM Recuperator for Microturbine Applications”

Author of several NASA New Technology briefs and computer programs in cryogenic fluid transfer, two phase flow, radiation heat transfer, and solar array performance

Author of NASA/Contractor reports on electric propulsion and cryogenic insulation

Education:

BS in Fluid, Thermal & Aerospace Engineering from Case Institute of Technology, Case Western Reserve University;

MS in Systems Management from Viterbi School of Engineering, University of Southern California

Additional course work in Patent Law and Small Business Management

Membership: AEE, ASME, National & Ohio Societies of Professional Engineers, Ohio Academy of Science, SAE