

Contact

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Top Skills

Numerical Analysis

Cryogenics

Electrical Engineering

Honors-Awards

Board Member Cryogenic Engineering Conference

Vice President of the Cryogenic Engineering Conference

Editor for the International Cryogenic Materials Conference

IEEE Senior member

Publications

TOPICAL REVIEW: Novel technologies and configurations of superconducting magnets for MRI

Selection criteria for use of high strength ELI titanium alloys in cryogenics

The development of a Pulse Tube Cooler with more than 1 W at 4.2 K
Cryogenics

CHEETA: An All-Electric Aircraft Takes Cryogenics and Superconductivity on Board: Combatting Climate Change

wolfgang stautner

Principal Engineer at GE Global Research
Schenectady, New York, United States

Summary

Turnkey design and build of MRI and NMR magnet systems, MRI specialty systems and MRI add-on systems, complete designs of HTS and LTS Generators.

Cryogenics, LNG technology, Vacuum technology, Sorption technology, Refrigeration, Superconducting technology, Magnet Technology, Magnet Design Optimization, Gas Dynamics, Fortran Software Programmer since 1977, Fortran 77, 90 and Fortran 2000, In-depth knowledge of Numerical Mathematics and Methods of Optimization, Long-term experience in Cryogenics Metrology down to 0.5 K, also specialized in Cryogenics Materials Testing, extensive knowledge in pulsating Fluid Dynamics, Stationary / Transient heat transfer, FED and FEM programming, Pressure Vessel Technology, Design and Analysis (ASME, BSI, AD), invented NMR High-Field Magnet Remote Diagnostics Facility

Specialties: Patent law, Pulse Tube Cooler technology, Thermoelectric coolers, Materials testing, Measurement and control technology, FT-IR systems, Hydrogen technology, LNG technology, Liquefiers

Experience

GE Global Research

19 years

Principal Engineer

March 2018 - Present (5 years 9 months)

Senior Magnet and Cryogenics Engineer / Project manager

December 2004 - March 2018 (13 years 4 months)

GE Global Research

Siemens Magnet Technology

Principal Technology Engineer

September 1996 - December 2004 (8 years 4 months)

Bruker Biospin

Principal engineer

October 1982 - October 1996 (14 years 1 month)

Research Center Karlsruhe

Cryogenics engineer

October 1977 - October 1982 (5 years 1 month)
