



Dr Patrick N Espy
Espy Architecture
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Education

Licensed Professional Engineer in the state of Alabama
Bachelor of Science, Physics/Mathematics, University of Alabama
Master of Science, Instrumentation and controls, University of Arkansas
PhD, Instrumentation and Controls, University of Arkansas

Professional Qualifications

- 30 Years, Solar Consultation for NASA and Industrial projects. Designed and patented an improved photo thermal solar collector design; design features of the design are improved cost relationships, higher achievable temperatures, increased BTU collection and non-tracking collectors.
- Instrumentation & Control Engineer/Technician in the solar power Field
- Holds multiple patents including solar hardware.
- Author, multiple national and international papers on solar energy.
- Designed, installed, operated, and monitored performance of solar hot water systems for ten years.
- Served on evaluation committees with NASA/Department of Energy for advanced concepts for solar energy collection, storage and utilization.
- Designed a collector for a hospital hot water system in a Department of Energy solicitation. It was chosen to be built as one of three from a hundred plus solicitations.

Employment History

Espy Architecture, LLC June 2008 - present
Passive and active solar system designer. Serves as the primary resource for design, instrumentation and control expertise in active solar systems. Serves as a consultant in designing building forms for maximum solar efficiency.

NASA, Marshall Space Flight Center, Huntsville, AL 1996-2001
Research physicist, project engineer and instrumentation engineer. Work areas included space instrumentation development, space station solar/environment engineer, laser applications.

Professor, University of Ala, University Of Arkansas, University of North Florida, University Of West Florida. 1978-1994
Taught courses in solar energy and energy conservation. Lectured in week-end and semester length courses in solar energy and energy conservation.