

Steven M. Summer

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EDUCATION

RUTGERS UNIVERSITY, New Brunswick, NJ
M.S. in Mechanical Engineering, January 2001
B.S. in Mechanical Engineering, December 1998

CAMEO

Two years experience in the design and management of experimental research activities starting with the successful completion of a Masters Degree program in Mechanical Engineering from Rutgers University under a fellowship grant from the Federal Aviation Administration (FAA). Area of specialization was thermal sciences and the degree thesis was based on research performed to determine several key flammability characteristics of JP-8 fuel. Upon graduation, further experiments were undertaken in support of the FAA to aid in the determination and evaluation of fuel tank inerting methods for use in commercial aircraft.

EXPERIENCE

9/00 - Present

Mechanical Engineer , Galaxy Scientific Corporation

Provide engineering support to the Federal Aviation Administration's Fire Safety Section in the area of fuel tank explosion protection experimentation and evaluation.

5/98 – 9/00

FAA Fellow, Rutgers University, Department of Mechanical & Aerospace Engineering

Designed and implemented research experiments used both to characterize certain flammability properties of aviation fuel and to give support to the use of fuel tank explosion protection systems.

11/96 – 5/98

Laboratory Manager, Professional Service Industries

Performed soil and concrete laboratory testing in accordance with ACI and ASTM standards, compiled reports of lab and field testing, and trained and supervised all laboratory employees.

5/97 – 8/97

Technical Intern, Intel Corporation

Developed and initiated implementation of a systematic method used to analyze the functioning properties of all factory exhaust systems.

5/96 – 8/96

Technical Intern, Intel Corporation

Researched the mechanical aspects of inkjet printer printheads, the limitations of these printheads, and methods of overcoming these limitations.

PUBLICATIONS

Summer, S. M. and Polymeropoulos, C. E., *Multi-Component Fuel Vaporization in a Simulated Aircraft Fuel Tank*, Intended Publication, August 2000.

Summer, S. M., *Cold Ambient Temperature Effects on Heated Fuel Tank Vapor Concentrations*, DOT/FAA/AR-TN/93, July 2000.

Summer, S. M., *Mass Loading Effects on Fuel Vapor Concentrations in an Aircraft Fuel Tank Ullage*, DOT/FAA/AR-TN99/65, September 1999.

PROFESSIONAL ASSOCIATIONS

American Institute of Aeronautics and Astronautics (AIAA)
American Society of Mechanical Engineers (ASME)
Society of Automotive Engineers (SAE)