BLACKSTAR ENERGY GROUP

A Division Of The BlackStar Companies

Dr. Jeffrey L. Streator

Title	Chief Scientist for Technology Development & Deployment
Years of Experience	28 years
Education/Certifications	Ph.D. Mechanical Engineering (University of California at Berkeley, 1990) Masters of Mechanical Engineering (University of California at Berkeley, 1986) Bachelors of Mechanical Engineering (Harvard University, 1982) Fellow American Society of Mechanical Engineers (2012) Fellow Society of Tribology and Lubrication Engineers (2011) Energy Auditor, Association of Energy Engineers
Areas of Expertise	Performed $10MM of research funded by DOE and NSF in the area of energy management and friction reducing systems. Developed first of its kind EMS protocol to complete CV analysis of energy consuming systems

Background

An experienced professor, research scientist and corporate executive with over 25 years of experience, Dr. Jeffrey L. Streator brings expertise and technical excellence to the BlackStar Energy Team. With his adeptness at mathematical modeling, Dr. Streator provides the team with the computational expertise required to build industry leading first of its kind illumination products that possess the maximum capacity for energy efficiency. Dr. Streator works seamlessly with the product design team and guides each product to ensure electricity usage is optimized.

Professional Experience

Chief Technology Officer, *Energy Management & Optimization System Specialist*

BlackStar Energy Group (February 2017 to Present)

Activities:

Operates as the subject matter expert (SME) for Energy Engineering Solutions and is responsible for the design and development of new technology offerings for the company. Manages all research and development activities pertaining to the development and commercialization of new products & processes for energy management and energy efficiency applications. Working on SMART lighting technology applications, which will allow facilities to operate at Net Zero energy capacity.

Accomplishments

Designed an 'in house' energy utilization assessment protocol used to clarify and define each customers' energy usage and carbon footprint. Created the 'first of its kind' Energy Management System (EMS), which permits the calculation of electricity usage and efficiency for each electronically powered device within a facility. Developed the protocol used by the company to quantify energy efficiency and savings of its' illumination products compared to leading industry LED's, incandescent and fluorescent film bulbs.

Tenured Professor, Department of Mechanical Engineering
Georgia Institute of Technology, Atlanta, Ga. (September 1990 – Present)
Tribology and lubrication system expert for conformal and non-conformal contact regimes. Successfully conducted research on energy reducing systems. Developed, designed and evaluated methodology to characterize frictional losses within energy generating systems. Developed mathematical modeling tool for real time energy utilization and optimization thereof. Validated modeling tool accuracy via commercial and industrial applications.

Research Assistant, Department of Mechanical Engineering
University of California, Berkeley, Berkeley, CA (June 1985 – August 1990)
Performed mathematical and numerical computations related to the friction reduction and lubrication. Verified modeling efforts per the use of computer hardware.

Energy Systems Engineer
NASA Ames Research Center, Mountain View, CA (June-August, 1984 and 1985)
Developed computer code to determine viewable regions of sky each minute of every day for infrared earth-orbiting telescope, taking into consideration the orbital trajectory of the telescope and the relative positions of the earth, moon, and sun. Developed a numerical simulation of the flight of a comet probe from the time of its ejection from the mother spacecraft until its impact with the comet's surface.