

ROBERT D. ZELLER

EDUCATION

Master of Science in Physics – Mechanics, Ohio State University – Columbus, Ohio – 1968
National Science Foundation Graduate School Stipend recipient
Bachelor of Science in Education – Physics and Mathematics, Ohio State University – Columbus, Ohio – 1967 - Graduated Cum Laude

SUMMARY

Over thirty-five years in product engineering and engineering management for an industry-leading manufacturer of specification-grade lighting products. Responsible for all phases and engineering functions of the product engineering program including concept development, feasibility analysis, patentability and infringement analysis, design, development and reliability and design quality assurance.

CAREER HISTORY

Holophane, a division of Acuity Lighting Group, Inc. - Newark, Ohio - (ALG, Inc. was spun off from NSI, Inc. in 2001)

Senior Engineering Manager – Mechanical Design and Testing

- Functionally responsible for Mechanical Engineering processes and activities of the Engineering groups tasked with the development of new products and the maintenance of the specifications for existing products
- Responsible for all Mechanical Engineering support processes, facilities and personnel including the thermal, rain, vibration and structural test laboratories and analysis processes, our in-house model shop and the Standards Group (liaison to UL, CSA NFS, IEC, etc. for third party testing and certification)
- Responsible for patent application prosecution and patent portfolio management and all related IP legal activity including preparation of confidentiality agreements and the documentation and securement of company trade secrets
- Member of the company Product Liability Team with responsibility for all technically based input and decisions regarding product liability and product-based risk management matters
- Responsible for planning, construction and maintenance of all company building facilities used by the Research and Development Department and the Marketing Department

Holophane Corporation - Newark, Ohio - (purchased by National Service Industries, Inc. in mid-1999)

Engineering Manager – Product Development

- Administratively and functionally responsible for the New Product Development Group, the Product Specification Maintenance Group and the Model Shop

- Responsible for the development of all new lighting fixture product lines and the maintenance of all lighting fixture specifications
- Member of the company Product Liability Team with responsibility for all technically based input and decisions regarding product liability and product-based risk management matters
- Trained a group of four Mechanical Engineers to assume the positions of Project Manager, capable of managing all aspects of major product development projects

Holophane Division of Johns-Manville Corporation - Newark, Ohio

Research Manager - Mechanical/Structural

- Administratively and functionally responsible for most of the mechanical engineering personnel of the Division
- Responsible for a varying portion of new product development and product specification maintenance with emphasis on those projects involving new markets and new technologies
- Responsible for the construction and maintenance of all facilities of the Division's R & D Department

Holophane Division of Johns-Manville Corporation - Newark, Ohio

Manager of Electromechanical Engineering (Project Engineer/Laboratory Supervisor)

- Expanded the company's high mast lowering device product line
- Designed and/or directed development of all of the company's pole-mounted lighting fixtures
- Supervised the thermal, rain, vibration, and sound laboratories
- Administratively responsible for the laboratory personnel

Holophane Company, Inc. - Newark, Ohio

Engineer – Mechanical/Structural

- Responsible for the installation of Vibration Testing Laboratory and the implementation of the company vibration testing process
- Redesigned all existing in-house manufactured poles and all pole packages
- Responsible for the design of the company's first high mast lowering device system

PROFESSIONAL ORGANIZATION INVOLVEMENT

Illuminating Engineering Society – Associate Member

AASHTO-AGC-ARTBA, Task Force #13 – Industry Advisor

National Electrical Manufacturers Association – Commercial and Industrial Lighting Fixture Committee

National Electrical Manufacturers Association – Spun Aluminum Pole Group

National Electrical Manufacturers Association – Task Group on Warning Labels

American National Standards Institute – Committee on HID Lamps

American National Standards Institute – Committee on HID Lamp Ballasts
Transportation Research Board – Industry Advisor

PUBLICATIONS

Lighting Design and Application – June, 1972 – The Marriage of a Pole and Luminaire
Journal of the Illumination Engineering Society – October, 1975 – ESI Meter/ Theory and Practical Embodiment

Journal of the Illumination Engineering Society – July 1978 – Complexities and Interrelationships in Lowering Device Design for High Mast Lighting Equipment

Architectural Lighting – June 1987 – Selecting Luminaires for Hazardous Locations

PATENTS GRANTED AND PENDING

3,721,816	Luminaire (Lowering Device Latching System)
3,847,333	Method and Apparatus For Centering a Luminaire Support
3,977,639	Free Fall Safety Assembly For Use with Luminaire Raise Lower Apparatus
3,912,399	Method of And Assembly For Measuring Equivalent Sphere Illumination
4,055,383	Method of And Assembly For Measuring Equivalent Sphere Illumination
4,719,540	Apparatus and Method For Attaching Electrical Components in a Lighting Fixture
5,278,745	Apparatus and Method For Pivotaly Attaching a Refractor to a Reflector in a Lighting Fixture
5,440,466	Fluorescent Lighting Fixture Retrofit Unit and Method for Installing Same
D383,866	Pole Mounted Area Luminaire
Pending	Latching Mechanism for High Mast Lighting System