

Daniel J. Stern • Freelance Vehicle Lighting Consultant

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PROFILE

In the field of lighting and light-signaling devices and systems on motor vehicles I wield formidable, comprehensive expertise and knowledge of the theory, practice, technology, technique, development, function, history, marketing, and regulation worldwide. I have served as an expert witness in legal proceedings related to vehicle lighting, an expert resource for articles and reports by numerous news outlets and regional automobile association chapters, and provided extensively referenced factual corrections to a white paper on headlamp safety performance and glare submitted to a government docket by a renowned national automobile association. I actively participate in technical standards development and research bodies, evaluate and critique relevant regulatory proposals, and have contributed materially to vehicle lighting regulations in several countries and territories. I participate in — and report on — the major international automotive lighting symposia and conferences, and have attended meetings of the United Nations international vehicle lighting and light signalling regulatory development working group at the invitation of its president. I maintain and curate a collection of technically and historically significant vehicle lighting devices and an apposite library of technical literature.

Experience

Chief Editor • Driving Vision News — 2009-Present

The global automotive lighting industry's technical journal of record. I write, photo-illustrate, edit, and analyze news, conduct interviews, and produce in-depth reports. I chair the annual North American DVN Workshop technical symposium for vehicle lighting researchers, manufacturers, practitioners, regulators, designers, & suppliers.

Head of Product Development, Compliance, Retail Sales • Candlepower, Inc. — 2002-2010

I initiated retail marketing and sales, wrote promotional marketing materials, packaging text and technical literature, oversaw profitable product range expansion, responded to Federal regulatory proposals, resolved compliance issues, and devised in-house product testing protocols.

Product Development Manager • ACA Performance — 2001

I was hired to fix compliance-critical design and engineering flaws in a line of headlamps.

Proprietor & Consultant • Daniel Stern Lighting — 1996-Present

I have served as a consultant and supplier to private, commercial, and governmental end users seeking to see better while driving at night. I have successfully resolved ambiguous forensic evidence for law enforcement and investigative agencies. Under contract I have written in-depth technology reports, monographs, and analyses.

Manager, Race & Support Vehicle Lighting • University of Michigan Solar Car Team — 1998-1999

I directed the design, specification, procurement, fitment, and hookup of the lighting systems on the race vehicle and the mobile machine shop & car transporter.

AFFILIATIONS

National Academy of Sciences Transportation Research Board Visibility Committee

Appointed member, 2003–Present

Society of Automotive Engineers Lighting Systems Group

Voting member & task force chairman, 2007–Present

EDUCATION

Bachelor of General Studies • University of Michigan, Ann Arbor — 2001

The BGS program involves exceptionally broad distribution requirements and requires twice the upper-division coursework of conventional major/minor-based degree tracks.

PUBLICATIONS

Where Does the Glare Come From? — 2001 (2nd edition 2002)

This white paper on seeing performance and glare produced by various headlamp types and configurations is a permanent part of the technical libraries of North America's premier vehicle lighting and human factors research institutes.

SKILLS & SPECIALTIES

- Public speaking with great adaptability to audience and situation
- Highly precise, clear, engaging technical writing, editing, teaching
- Extremely fluent in English, competent in French; vehicle lighting-related vocabulary in German and Spanish