Michael Lebby

EDUCATION:

2004, Doctor of Engineering (D. Eng.)
University of Bradford, United Kingdom
Citation, "*Technical Contributions to Optoelectronics"*
(NB: This is a higher doctorate awarded on technical contribution to the field)

1987, Ph.D.
University of Bradford, United Kingdom
Thesis, "*Characterization and Fabrication of the HFET and BICFET"*

1985, MBA
University of Bradford, United Kingdom
Thesis, "*Small Business Planning for a Start-up"*

1984, Bachelors (B. Eng. – Honours)
University of Bradford, United Kingdom
Thesis, "*Computer Aided Testing of Semiconductor Devices"*

COMPELLING VALUE:

Patents/Intellectual Property

- Court experience: 10 IP trials (4 district court, 2 ITC, 1 superior court, and 3 IPR). Also, >5 completed trial preparations before cases were settled; 25-30 depositions; 5-10 depositions as deposition observer reviewing opposing expert; 50+ expert reports and >60 patent litigation projects.

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- Testimony to the China Commission on Capitol Hill on behalf of the Optoelectronics Industry
- Creative innovator/inventor with over 215 utility patents with USPTO (>450 if international derivatives are included)
- Highly experienced technologist with intellectual property processes: prosecution, invalidity, infringement, claim construction, deposition, trial (ITC, District Court, PTAB-IPR), and patent due diligence (DD) evaluation
- Dr. Lebby has been cited by the USPTO to be in the most prolific 75 inventors in the country (USA) from 1988-1997.
- Exemplary patent invention at Motorola and in 1998 was # 1 prolific inventor in Motorola's 70yr+ history in semiconductor platform areas such as: diode lasers, fibre optics, optical devices, transceivers, VCSELs, LEDs, Sensors/detectors, LED/VCSEL packaging, passive/active fiber alignment, low cost manufacturing, crystal growth/engineering, polymer waveguides, diffraction gratings, and molding.
- Co-inventor of the world's first oxide VCSEL (Patent #5,359,618) – a VCSEL diode laser that has subsequently sold many 100M's into applications such as optical guidance (computer mice, track balls) and optical communications (optical interconnect) and now will be used in high end mobile phones for 3D sensing as the base platform for Apple's new Face ID technology on the iPhone.

Technical

- Demonstrated broad technological semiconductor/opto (laser, LED, detector)/electronics (transistor)/optics experience
- Ability to both zoom into technical detail (as CTO) as well as see the big picture (as CEO/BoD)
- Full professor and chair of optoelectronics at Glyndŵr University, Wales, UK., (part-time responsibilities to assist and guide new programs for 2 years).
- Fellow grade with IEEE and OSA (typically limited to <1% of membership)
- Over 60 technical publications.
- Board of Director experience (both private/public) and maturity in many aspects of optical communications that include industrial research, development, packaging, and manufacturing
- Demonstrated commercial technological expertise; especially in fiber optic communications, materials, packaging and alignment, optoelectronics (LEDs, laser diodes, detectors, sensors), optical components, optics/optical lenses/optical gratings, photonics (PICs, OEICs, silicon photonics, polarizers, MEMS, optical switches, solar cells, gratings, Mux/Demux), semiconductors (CMOS, SOI, SoS), materials (GaN, InGaN, GaAs, SiGe, InP, SiC, REO, Sapphire),

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fabrication, (Silicon, GaAs, InP) manufacturing (III-V, Silicon, SiGe), epitaxial growth (MOCVD, MBE, CVD), and optics/microelectronics packaging/assembly.

- Experienced expert witness for a wide portfolio of technological subjects that include a variety of optoelectronic/optic and electronic materials, silicon ICs, rf electronics, low cost plastic LED and laser diode packaging, VCSELs, Barcode scanners, diode lasers, high power lasers, CD, DVD, and BluRay optical read/write systems, compound semiconductor epitaxy, electronic components, systems, integrated circuits, electronic circuits, optical lenses, optical components (Mux, LCD switches, lasers, filters, etc.), optical networks (ROADMs, routers, coding), LIDAR, connectors, fiber management, and optical characterization, product breakdowns with BoM analysis, and testing.

Business

- Internationally recognized business leader in photonics and electronics manufacturing, especially integrated photonics, lasers, and LEDs (as evidenced through 2018 PIC Business Leader and Entrepreneur award.
- Entrepreneur with two venture backed laser-based start-ups (Ignis Optics - Silicon Valley, & OneChip Photonics – Ottawa, Canada), and a high tech growth stage publicly listed company (Lightwave Logic Inc. OTCQB: LWLG).
- Intrapreneur for multi-national corporations (Motorola, Intel, Tyco, etc.) with many partnerships, strategic plans, roadmaps, P&L, and team leadership.
- World recognized for photonics industry technology road-mapping methodology (OIDA, iNEMI, PhotonDelta).
- Extremely innovative in solving problems and creating solutions; finding ‘diamonds-in-the-rough’ both on a technical level and a commercial level.
- Natural leader: attracts 1st class (and world-class) personnel
- Goal and milestone orientated, both fiscally and technologically.
- Proven responsibility of budgets, sales, marketing, engineering, and operations.

Networking & Corporate Relations

- Director of Corporate and Foundation Relations: Focusing on aligning technology companies and academic faculty (engineering) with a deep technical perspective (new to this type of role).
- Executive Director/CEO OIDA – Non-profit optoelectronics trade association to promote industry issues/voice and build membership.

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- Internationally recognized with 10+ BoD, BoD observer positions of public and private companies (typically SMEs).
- Corporate investor/VC: investment in a number of photonic/electronic start-ups as part of the Intel Capital Optoelectronics team.
- Excellent communication/media skills with over 170 media achievements such as: Keynotes, talks, papers, reports, talks, panel sessions, courses, videos, webinars etc.
- Excellent communicator to a variety of audiences: Public speaking experience includes: trials, keynotes, lectures, workshops, invited speeches, courts, high schools, colleges, universities, local chapters, domestic gvts, foreign gvts, and depositions - including Capitol Hill on behalf of the optoelectronics industry.
- First class interpersonal skills both domestically and internationally.

Commitment

- ***Passionate about photonics***: academic, industrial, and technological, governmental issues

Other

- Internationally recognized for optics, lens design, and innovative frame design for eyeglasses (member of the London Guild of Spectacle Makers, and Cosmos Club in Washington DC). Extensive knowledge in antique spectacles, eyeglasses, eyeglass optics, and vision aids.

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EXPERT WITNESS EXPERIENCE:

1. Active case work: 1Q2009 (March 24th 2009); *Testimony: US-China Economic and security review commission on the optoelectronics industry. US Congress, Capitol Hill;* Written statement on the status of the USA optoelectronics industry with aural cross-examination by the commission. Trial experience.
    a. Cumulative depositions:
    b. Cumulative trials: 1
    c. Technology: Optoelectronics (optical storage, fiber optic communications, sensors, high power lasers, LED lighting, etc).
2. Active case work: 3Q2010-1Q2011; *Finisar Corp. v. Optical Communication Products Inc.*, No. 10-CV-05617 and No. 11-cv-00104 (retained by plaintiff - Morgan, Lewis & Bockius LLP).
    a. Cumulative depositions:
    b. Cumulative trials: 1
    c. Technology: semiconductor lasers/VCSELs, fiber optic transceiver modules
3. Active case work: 1Q2011; *Ziptronix, Inc. v. OmniVision Technologies, Inc., Taiwan Semiconductor Manufacturing Company Ltd., and TSMC North America Corp.,* No. 11-CV-5235 (retained by plaintiff – Alston Bird LLP).
    a. Cumulative depositions:
    b. Cumulative trials: 1
    c. Technology: CMOS image sensors; design and fabrication
4. Active case work: 3Q2011 to 3Q2012; *Certain Light-Emitting Diodes and Products Containing Same*, Inv. No. 337-TA-798 (USITC filed July 15, 2011) (retained by respondent Samsung – Covington & Burling LLP). Deposition (x2) and trial experience.
    a. Cumulative depositions: 2
    b. Cumulative trials: 2
    c. Technology: LEDs, device design, color gamut, packaging, optical lensing.
5. Active case work: 3Q2011 to 2Q2015; *Cheetah Omni, LLC v. Alcatel-Lucent USA Inc.*, No. 11-CV-390 (E.D. Tex. filed July 29,

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