

## **LAEL ANDREW ALEXANDER**

United States | International Operations: U.S., Africa, China, India  
Energy Infrastructure | Advanced Manufacturing | Clean Technology Platforms  
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### **EXECUTIVE SUMMARY**

Global energy and advanced manufacturing executive with 20+ years of cross-sector leadership spanning Oil & Gas, conventional power generation, distributed energy systems, smart grid telemetry, and consumer electronics manufacturing.

Founder and CEO of multi-national technology and manufacturing enterprises with operational presence in the United States and Asia. Demonstrated ability to build and deploy medium to large-scale power systems in both Africa and the U.S., including distributed energy architectures supporting industrial and manufacturing operations.

Recognized for combining C-suite strategic leadership with hands-on technical depth across engineering, plant operations, grid integration, and system commercialization.

Experienced in:

- Infrastructure-scale energy deployment
- Cross-border manufacturing and ODM/OEM operations
- Grid modernization and telemetry systems
- Capital structuring and multi-entity governance
- Organizational build-out and executive leadership
- Pre-IPO asset preparation and integration

### **CORE COMPETENCIES**

- Clean Energy Platform Development
- Power Generation & Distributed Energy Systems
- Smart Grid & Utility Telemetry
- Advanced Manufacturing & OEM/ODM Operations
- Infrastructure Commercialization
- Multi-Jurisdiction Operations Leadership
- Capital Allocation & Asset Scaling
- Organizational Turnaround & Integration
- Engineering-to-Market Execution
- Board & Institutional Engagement

## **PROFESSIONAL EXPERIENCE**

### **NOITAVONNE INC.**

Founder, Chairman & Chief Executive Officer  
Tulsa, Oklahoma | U.S. & Asia Operations | 2010–Present

Founder and CEO of vertically integrated consumer electronics and telecommunications manufacturing enterprise with operations across the United States and Asia.

Led 482+ employees across engineering, manufacturing, logistics, and sales functions. Managed assets exceeding \$300 million during pre-IPO positioning phase.

#### **Scope of Leadership:**

- Global OEM/ODM manufacturing oversight (Shenzhen, China)
- Fixed network operator operations (Noitavonne Wireless)
- International supply chain and quality control governance
- New product development lifecycle management
- Institutional distributor and channel relationships

#### **Key Achievements:**

- Built one of the leading U.S.-origin mobile design houses operating in Shenzhen.
- Directed development of mobile POS systems, industrial handheld devices, and IoT connectivity platforms.
- Commercialized telemetry-based transformer monitoring systems (UTMD).
- Led global trade show strategy and international distributor expansion.
- Coordinated factory engineering in Asia with multinational sales channels across U.S., Caribbean, Europe, and Asia.

### **SHENZHEN SIECOM COMMUNICATIONS & TECHNOLOGY CO., LTD**

Co-Founder | VP / Lead Designer / North American Operations Shenzhen, China  
| 2011–2015

Co-founded China-based communications technology and device manufacturing enterprise focused on mobile banking, mobile payment systems, and industrial internet devices.

Led product development and North American commercial strategy.

- Established OEM partnerships and cross-border engineering integration.
- Drove expansion into fintech-enabled mobile platforms.
- Managed sales channel integration between China manufacturing and U.S. distribution networks.

## **PREMARC TURNKEY SYSTEMS**

Interim CEO | Senior Operations & Project Executive Beaumont,  
Texas | 2007–2009

Executive leadership in industrial reliability engineering and energy-intensive manufacturing operations supporting petrochemical and refinery sectors.

- Directed large-scale turnaround and maintenance programs.
- Developed world-class reliability and maintenance standards.
- Oversaw operational improvements in refinery and discrete manufacturing facilities.
- Advanced through senior project leadership to executive oversight.

## **TIDEWIND ENERGY**

Chief Executive Officer United  
States & Africa

Led development and deployment of medium-scale and distributed power systems supporting manufacturing and industrial facilities.

- Structured and deployed distributed generation systems.
- Integrated power architecture supporting operational continuity for manufacturing operations.
- Coordinated energy infrastructure development across emerging markets.

## **OHMSTEDE INDUSTRIAL SERVICES**

Consulting Field Engineer | Projects Control Manager Beaumont,  
Texas | 2006–2007

- Prepared engineering studies for boiler control upgrades.
- Developed manufacturing process designs and capital budgets exceeding \$26 million.
- Led refinery maintenance cycle documentation and industrial scheduling.

## **OIL & GAS / REFINERY OPERATIONS**

Project Superintendent / Maintenance Engineering Manager Southeast Gulf  
Coast Region U.S. | 1998–2006

Early career in oil and gas plant construction and refinery operations.

- Directed plant construction, maintenance, and engineering operations.
- Oversaw supervisors, mechanics, and skilled labor teams.
- Specialized in cogeneration design, fire protection systems, telemetry, plant engineering.
- Implemented engineering-based solutions for maintenance reliability.

## **ENERGY & GRID INNOVATION EXPERIENCE**

Progressed from conventional oil & gas infrastructure into power systems and alternative energy platforms, then into smart grid telemetry and advanced monitoring technologies.

- Developed and deployed distributed energy systems supporting industrial manufacturing.
  - Early contributor to transformer telemetry systems and wireless monitoring platforms.
  - Integrated energy systems with digital monitoring architecture.
  - Led innovation across mobile connectivity platforms improving energy efficiency in consumer electronics and IoT devices.
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## **INTERNATIONAL OPERATIONS EXPERIENCE**

United States – Manufacturing & Energy Deployment  
Africa – Distributed Power System Deployment  
China – OEM/ODM Manufacturing Leadership India –  
Technology Platform Development

Extensive experience managing cross-cultural teams, international production facilities, and distributed supply chains.

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## **SELECTED RECOGNITION**

- CES Innovation & Engineering Award Recipient
  - Telecom Industry Technology Entrepreneur of the Year
  - Shenzhen Top Mobile Design House Recognition
  - Tulsa World – Tulsan of the Year (Community Leadership)
  - Amazon Advisory Board Member
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## **EDUCATION**

Grambling State University – (Early Studies)  
University of New Orleans (Computer Science & Industrial Design Studies)  
Global Institute of Science & Technology - India  
Larry Love University (Competency Based Learning)  
United States Navy – Technical & Systems Training

## **DOCTORIAL RESEARCH PATHWAYS (Applications Under Review)**

### **University of Westminster — London, United Kingdom**

PhD by Published Work (Part-Time) — *Application Under Review*

Application Reference: 22166139~5633785

Submission based on a portfolio of published works and applied research addressing:

- Gas-phase sensing architectures
- Environmental monitoring systems
- Coherence-based sensing models
- Energy infrastructure analytics
- Advanced materials platforms

### **Xi'an Jiaotong-Liverpool University — Suzhou, China**

Doctor of Philosophy (PhD) — *Application ID: PHD26000271*

Research proposal based on work developed through the **Phipsun research initiative**, focusing on:

- Atmospheric sensing technologies
- Computational environmental modeling
- Advanced telemetry and sensing systems
- Industrial environmental monitoring platforms

**Professional Associations:** IEEE | ASME | Consumer Electronics Association

## **LEADERSHIP PROFILE**

Dr. Alexander operates as a strategic C-suite executive capable of direct technical engagement across engineering, manufacturing, grid systems, and infrastructure deployment.

Career progression demonstrates sector evolution:

Oil & Gas → Conventional Power → Distributed & Alternative Energy → Smart Grid Telemetry → Consumer Electronics Energy Efficiency Platforms.

This progression provides rare cross-domain capability aligning energy infrastructure with manufacturing, digital systems, and scalable commercialization.

## RESEARCH, PATENTS & SCHOLARLY OUTPUT

### Granted Patents

Dr. Alexander is the named inventor on multiple granted patents in telecommunications, telemetry systems, and applied energy infrastructure technologies.

### Selected Granted Patents:

Alexander, L.A. (2012). Smart Phone Companion Loop - *Mobile Companion Connectivity Suite*. US Patent No. 20120282914

Alexander, L.A. (2012). Housing for Utility Sensors - *Unattended Telemetry Monitoring Device (UTMD)*. US Patent No. D702145

Alexander, Lael (2019). *Power Screen Protector*. US Patent No. 11996876, 202202216889

These patents reflect applied research in:

- Wireless device interoperability
- Utility infrastructure monitoring
- Distributed telemetry systems
- Engineering system integration

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### Published Books (ISBN Registered)

Dr. Alexander has authored multiple technical and applied research works exploring systems theory, materials science, and infrastructure innovation.

### Selected Works:

## PUBLICATIONS

### 1. Technology, Programming & Digital Systems

#### Building Blocks: Coder's Handbook Series

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – JavaScript*. Independently published. ISBN-13: 9798349449062.

Alexander, L.A. (2025) *Coder's HandBook – PHP*. Independently published. ISBN-13: 9798349449123.

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – Python*. Independently published. ISBN-13: 9798349449161.

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – React*. Independently published. ISBN-13: 9798349449185.

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – HTML & CSS*. Independently published. ISBN-13: 9781300088394.

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – A Beginner's Guide to Full-Stack Blockchain*. Independently published. ISBN-13: 9798349444944.

Alexander, L.A. (2025) *Building Blocks: Coder's Handbook – ChatGPT: The Ultimate Companion for the Modern Workforce*. Independently published. ISBN-13: 9781300104018.

## 2. Policy, Economic & Strategic Analysis

Alexander, L.A. (2025) *Liberation Day: "The Trade War"*. Independently published. ISBN-13: 9781257040162.

Alexander, L.A. (2025) *The Genius Act: The Literal Guide to Understanding Risk, Roles and Resilience*. Lulu Press. ISBN-13: 9781257055241.

## 3. Environmental & Systems Studies

Alexander, L.A. (2025) *The Sky Is Falling: Understanding Our Atmospheric Crisis*. Independently published. ISBN-13: 9781257156917.

Alexander, L.A. (2025). *Symbiotics: The Blueprint of Tomorrow*. Global Institute of Science and Technology ISBN: 9781257051526.

**Note: These works are globally distributed through major international book retailers including Amazon, Barnes & Noble, Walmart, and other catalog platforms in print and digital formats.**

Alexander, L.A. (2019). *The Nitrogen Constant*. Academic Registry

Alexander, L.A. (2026). *Coherence as a Primitive*. ISBN: [Release Date June 2026].

Themes explored include:

- Element-based material systems
- Energy infrastructure modeling
- Quantum and coherence-based systems theory
- Industrial commercialization of scientific research

**Research Orientation:** Dr. Alexander's professional progression demonstrates a structured evolution across domains > Oil & Gas Infrastructure → Power Generation → Distributed Energy Systems → Smart Grid Telemetry → Telecommunications Systems → Advanced Materials Platforms.

This interdisciplinary development reflects applied systems engineering capacity and sustained engagement in research-driven innovation.