

NERISA M. SISCAR



Electrical Engineer

About Me

Experienced Registered Electrical Engineer with 15+ years of expertise in electrical system design, inspection, and compliance. Specialized in fire and life safety systems and emergency power solutions across high-rise, airport, and institutional projects. Proven ability to deliver code-compliant, technically sound designs while leading coordination, QA/QC, and multidisciplinary integration to ensure safety, reliability, and operational performance.

KEY SKILLS

- **Electrical System Design & Analysis**
- **Fire & Life Safety Compliance (NFPA / NEC / PEC)**
- **Load Calculations & Power Distribution**
- **QA/QC & Technical Review**
- **MEP Coordination**
- **Code Compliance & Documentation**

QUALIFICATIONS / CREDENTIALS

- Registered Electrical Engineer (PRC) – License No. 0044750

EDUCATION

Bachelor of Science in Electrical Engineering (BSEE) - Technological University of the Philippines – 2009

Bachelor of Technology in Electrical Engineering Technology - Technological University of the Philippines – 2006

EXPERIENCE

Electrical Engineer

- Lead electrical design and inspection for large-scale multidisciplinary projects including airports, high-rise residential, commercial, and institutional developments.
- Conduct fire and life safety reviews ensuring compliance with PEC, NEC, NFPA 101, and local fire codes.
- Prepare and review single-line diagrams, load calculations, system layouts, and equipment sizing.
- Perform QA/QC on technical documents to ensure accuracy, compliance, and constructability.
- Coordinate with MEP, architectural, and fire protection teams for integrated project delivery.
- Mentor junior engineers and support technical reviews and documentation standards.

TRAININGS & SEMINARS

- **EShort Circuit Calculations** – IEEE Bulacan Chapter | Apr 2026
- **Protection Coordination** – IEEE Bulacan Chapter | Apr 2026
- **Loss Control Management (Safety Officer 3)** – Qesh Center & Consultancy | Apr 2026
- **Hazard Identification, Risk Assessment & Control (HIRAC)** – Qesh Center & Consultancy | Apr 2026
- **Power System Analysis for Building Design** – IEEE Tarlac Chapter | Mar 2026
- **Harmonics Workshop Training** – IEEE Metrowest Chapter, Mandaluyong | Mar 2026
- **IEEE-SQC Technical Seminar & General Membership Meeting** – IEEE Qatar Chapter | Mar 2026
- **IEEE-ICRC Technical Seminar (Virtual)** – IEEE Iriga City | Apr 2026
- **Voltage Drop Calculation, Short Circuit & Load Flow Analysis, Protection & Coordination** - IEEE Southern Cavite Chapter, Cavite – February 2026
- **Technical Seminar (IEEE Metro West)** - Intramuros Golf Course, Manila – February 2026
- **50th Annual National Convention & 3E XPO (Virtual)** - Institute of Integrated Electrical Engineers (IIEE), Pasay City – November 2025
- **PEE & ACPE Mentoring Updates and Technical Collaboration Workshop** - IIEE Metrowest Chapter, Manila – October 2025
- **Construction Occupational Safety & Health (SO2)** - Health and Safety Solutions Training Center – May 2025
- **Optimizing High-Rise Power Systems: Design, Harmonics & Protection Coordination** - Institute of Integrated Electrical Engineers (IIEE), Pasay City – March 2025
- **49th Annual National Convention & 3E XPO (Virtual)** - Institute of Integrated Electrical Engineers (IIEE), Pasay City – November 2024
- **GMM & Technical Webinar** - Institute of Integrated Electrical Engineers (IIEE), Manila – June 2023
- **8th Metro Manila Regional Conference** - Institute of Integrated Electrical Engineers (IIEE), Manila

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TRAININGS & SEMINARS

- **Technical Seminar** - IEEE North Chapter, Novotel Araneta – August 4, 2022
- **46th Annual National Convention & 3E XPO (Virtual)** - Institute of Integrated Electrical Engineers (IIEE), Pasay City – November 2021
- **7th Metro Manila Regional Conference (Virtual)** - IEEE Metrowest Chapter, Mandaluyong City – August 5, 2021
- **Vitzro Busway System Seminar - EnerSynch Power Corp.**, Makati City – July 2014
- **Wire and Cable Product Presentation & Seminar** - Sycwin Coating and Wires, Inc., Quezon City – June 2014
- **Powerduct Busduct Training** - PEMCOR, Makati City – November 2013
- **Vichnet Wire Mesh Cable Tray Training** - PEMCOR, Makati City – November 2013
- **Power Distribution and Protection Needs** - First Multi-Tech Industrial and Development Corp., Makati City – November 2013
- **Lightning Protection, Grounding System & Unistrut** - Energynet, Makati City – October 2013
- **Low & Medium Voltage Circuit Training - Breaker** - Institution and Address KC Industrial Corporation, Makati
- **Technical Seminar** - World Home Depot Corporation, Makati City – September 2013
- **Trabtech Seminar** - Phoenix Contact South East Asia, Makati City – August 2013
- **Phelps Dodge Product Presentation** - Phelps Dodge, Tarlac City – July 2013
- **Philips Indoor Product Review** - World Home Depot Corporation, Makati City – August 2013

PROJECT EXPERIENCE

EMCS CARIBBEAN LTD

Involved in multiple high-end residential, hospitality, and marina developments across the Caribbean, including:

Trajan Project · P8 · Jolly Harbour Marina · La Casa · Rock House · Curtain Bluff · Villa M · Morgan Residence · Xanadu · Sea Grape · Nanny Cay

Shang Bauhinia Residences – Cebu

Senior Electrical Engineer / Fire & Life Safety Review (For Construction)

- Conducted comprehensive life safety review for electrical systems.
- Validated emergency power, egress lighting, and PEC/NFPA compliance.
- Ensured system reliability aligned with high-rise residential standards.

NAIA Terminals 1, 2, 3 & Balagbag Substation – Pasay City

Senior Electrical Engineer / Fire & Life Safety Review (Renovation Phase)

- Reviewed electrical life safety systems for major international airport infrastructure.
- Ensured compliance for evacuation systems, emergency lighting, and backup power.
- Supported system reliability and operational safety in high-demand environments.

Casa Unico (Unico Project) – Bonifacio Global City

Senior Electrical Engineer / Fire & Life Safety Review (For Construction)

- Performed life safety validation for a 40-storey upscale residential tower.
- Reviewed emergency systems, protection coordination, and code compliance.

BWDC Tower – Bonifacio Global City

Senior Electrical Engineer / Fire & Life Safety Review (For Construction)

- Conducted electrical life safety review for a 45–50 storey ultra-luxury development.
- Validated emergency power systems, egress lighting, and compliance standards.

PNP SOCO Headquarters – Camp Crame, Quezon City

Senior Electrical Engineer / Fire & Life Safety Review (For Construction)

- Conducted electrical life safety review for forensic and investigative facilities.
- Ensured compliance with PEC and Fire Code requirements.
- Validated emergency systems and operational safety standards.

Metrobank (MBTC) Headquarters – Makati City

Senior Electrical Engineer / Full Electrical Design, QA/QC & Coordination

- Delivered full electrical design for a 35-storey corporate tower.
- Prepared schematic layouts, load calculations, and protection coordination.
- Designed system for four 2-MVA transformers.
- Mentored junior engineers and supported QA/QC processes.

Benavidez Tower – Binondo, Manila

Senior Electrical Engineer / Full Electrical Design & Construction Support

- Led electrical design for a 68-storey residential tower.
- Performed load studies, equipment sizing, and full design documentation.
- Conducted site inspections, punchlisting, and turnover compliance.