Felix K. S. Adabla

Electrical Engineer
Licensed Project Management Professional
Power Electronics Reliability & Industrial Electrical Systems
Data Center Construction & Commissioning, EV Manufacturing Plant
Facility Management, Energy Systems

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Professional Summary

Electrical engineer and Project Management Professional with cross-sector experience in mission-critical data-center infrastructure, advanced manufacturing, industrial electrical construction, facility energy systems, power generation, renewable energy, commissioning, and power-electronics reliability. Currently supports MEP construction, quality assurance, commissioning readiness, turnover, and operational readiness for complex data-center facilities. Previously held owner-side construction and facility-management responsibilities for electrical infrastructure and energy systems at a major U.S. electric-vehicle manufacturing facility.

Author of peer-reviewed research published in *IEEE Transactions on Consumer Electronics* and contributor to the technical community through IEEE journal peer review, conference technical-program review, invited industry speaking, panel participation, conference moderation, and IEEE section leadership. Currently serves as Interim Vice Chair of the IEEE Savannah Section.

Areas of Expertise

Mission-Critical Data Center Infrastructure • MEP Construction and Commissioning • Construction-to-Commissioning Turnover • Electrical Infrastructure and Critical Power Systems • Commissioning Readiness and Operational Readiness • Field Engineering and Technical Coordination • Electrical QA/QC and Installation Verification • Deficiency and Punch-List Management • Advanced Manufacturing Facilities • Industrial Electrical Construction • Facility Management and Energy Systems • Renewable Energy Integration • Power Generation and Distribution • Power Electronics Reliability • Contractor and Vendor Coordination • Project Management

Professional Experience & Leadership Roles

- **Apollo Mission Critical Engineering** *Aug. 2026 – Present*
  MEP Construction & Commissioning Support Engineer Atlanta, Georgia, USA
  - Support MEP construction, QA/QC, commissioning readiness, turnover, and operational-readiness activities for mission-critical data-center infrastructure.
  - Perform field inspections and installation verification of critical electrical and mechanical systems against approved drawings, submittals, specifications, and project-quality requirements.
  - Conduct Red Tag inspections and track installation deficiencies, labeling issues, incomplete work, and corrective actions through verification and closeout.
  - Coordinate with contractors, equipment vendors, commissioning personnel, and project stakeholders to resolve construction, documentation, and system-readiness issues.
  - Support the transition of critical-power and supporting MEP systems from construction completion through documented turnover and commissioning.

- **Hyundai Motor Group Metaplant America (HMGMA)** *Jun. 2026 – Jul. 2026*
  Construction & Facility Management Department–Electric Assistant Manager Bryan County, Georgia, USA
  - Exercised owner-side responsibility for electrical construction, facility-management, energy, and production-support workstreams at a multibillion-dollar electric-vehicle manufacturing facility.

- Coordinated contractors and cross-functional stakeholders on major electrical and facility-infrastructure projects, including the $3 million-plus wastewater lift-station expansion and $5 million-plus hybrid-electric-vehicle facility expansion.
- Served as an SAP budget end user, supporting budget control, project disposition, purchasing, payment, and financial-accountability processes for facility-management projects.
- Coordinated renewable-electricity and facility-energy initiatives supporting RE100 commitments, renewable-energy certificate administration, energy reporting, and Smart Factory Energy Management System implementation.

- **Hyundai Motor Group Metaplant America (HMGMA)** *Aug. 2024 – Apr. 2026*
  Construction & Facility Management Department–Electric Specialist Bryan County, Georgia, USA

  - Supported owner-side electrical construction and facility-management activities during the construction completion, production launch, and operational stabilization of a large-scale EV manufacturing facility.
  - Reviewed electrical drawings, technical submittals, field installations, and contractor documentation to support code compliance, construction quality, and reliable facility operation.
  - Coordinated contractors and internal stakeholders to resolve electrical installation deficiencies, facility modifications, work orders, and production-readiness issues.
  - Performed field inspections and punch-list follow-up to verify completion and correction of electrical infrastructure serving manufacturing and facility-support operations.

- **McCarthy Building Companies (Renewables Division)** *May 2023 – Aug. 2023*
  Project Engineer Intern – Electrical Systems Texas, USA

  - Supported engineering and field execution for a utility-scale solar generation project involving DC systems, medium-voltage infrastructure, and inverter-based equipment.
  - Reviewed electrical design documents and technical submittals for constructability, specification alignment, and field coordination.
  - Coordinated installation and execution activities across DC and MV systems associated with power-conversion infrastructure.
  - Developed inspection procedures and quality-control documentation for inverter and combiner systems.

- **METKA Power Projects** *Feb. 2022 – Jul. 2022*
  Site Electrical Engineer Tema, Ghana

  - Managed site electrical engineering responsibilities during construction of a combined-cycle power plant.
  - Designed and supervised contractor, installation activities involving medium and low voltage equipment, instrumentation, protection, and control systems required for plant operation.
  - Supported field coordination, installation quality, and system-readiness activities for electrical and control infrastructure.

- **ORSAM / OWER Ghana Limited (Oil and Gas)** *Sep. 2019 – Jan. 2022*
  Electrical Project Engineer Tema, Ghana

  - Supported pre-commissioning, commissioning, and operational-readiness activities for industrial control and power systems.
  - Executed instrumentation and control system pre-commissioning tasks to verify functional integrity of automation and monitoring infrastructure.
  - Developed and maintained as-built electrical and control documentation for system turnover and maintenance support.
  - Supported programming and integration of PLC- and HMI-based control systems used in continuous industrial operations.
  - Supervised electrical and instrumentation teams, coordinating procurement, installation, and quality-control activities for high- and low-voltage systems.

– Implemented safety and QA/QC procedures governing installation and commissioning activities.

- **ORSAM / OWER Ghana Limited** *May 2018 – Aug. 2018*
  Electrical Engineering Intern Tema, Ghana
  – Supported senior engineers in automation and control system implementation within an active manufacturing environment.
  – Assisted with PLC programming, electrical documentation, and project coordination activities supporting reliable facility operations.
  – Gained early exposure to industrial safety standards and best practices governing high-voltage and automated systems.

Education

- **Georgia Southern University, Statesboro, Georgia, U.S.A.** *2024*
  Master of Science (MSc.) Electrical Engineering
  – Thesis: *"Power Electronic Converter Reliability Improvement Optimization Using Genetic Algorithm"*
  – Research Laboratory: *Laboratory for Advanced Power and Energy Systems (LAPES)*
  – Research Area: Reliability Optimization of Power Electronic Converter Systems

- **Kwame Nkrumah University of Science and Technology, Kumasi, Ghana** *2019*
  Bachelor of Science (B.Sc.) Electrical and Electronics Engineering
  – Capstone Project: *Design and Implementation of Bamboo-Based Drone for Plant Health Monitoring*
  – GPA: *3.77*

Peer-Reviewed Publication

1) **F. K. S. Adabla**, M. Davari, F. Blaabjerg, and Y. Yang, "*Methodological Framework for Optimizing the Reliability Improvement of Power Electronic Converter Systems: Mathematical Problem Formulation and Topology-Agnostic Optimization Approaches*," **IEEE Transactions on Consumer Electronics, Vol. 71, No. 4, November 2025**.
Peer-reviewed article presenting a topology-agnostic optimization framework for improving the reliability of power electronic converter systems. Research was conducted at the Georgia Southern University Laboratory for Advanced Power and Energy Systems (LAPES), with related support from U.S. National Science Foundation-funded programs. 2025

Research Contributions

Graduate Research, Georgia Southern University May 2024
– Conducted graduate research on optimization-based methods for improving the reliability of power electronic converter systems.
– Developed a mathematical reliability formulation and evolutionary-optimization workflow applicable across multiple converter architectures.
– Performed simulations and comparative analyses to evaluate reliability-performance trade-offs under varying operating conditions.
– Produced research outputs that formed the basis of the peer-reviewed IEEE publication listed above.

Peer Review, Technical Program Committees & Professional Judging

Journal Peer Reviewer 2026
IEEE Journal of Emerging and Selected Topics in Industrial Electronics (JESTIE)
IEEE Transaction on Reliability (TR)

- Selected to evaluate scholarly manuscripts within the field of industrial electronics.
- Completed four independent manuscript peer reviews assessing technical quality, methodological rigor, significance, and suitability for publication within JESTIE.
- Completed one independent manuscript peer review assessing technical quality, methodological rigor, significance, and suitability for publication within TR.

Invited Technical Paper Reviewer 2026
2027 IEEE Applied Power Electronics Conference and Exposition (APEC 2027)

- Selected to serve on the APEC 2027 Technical Program Committee and evaluate technical paper submissions in power electronics.
- Completed twelve independent manuscript peer reviews assessing technical quality, methodological rigor, significance, and suitability for publication within APEC.

Conference Presentation Evaluator Feb. 2026
4th Excellence in Construction, Design & Engineering of EV & Battery Factories Forum for North America and *4th Battery Gigafactory Summit USA: Advances in Planning, Engineering and Operations*

- Evaluated invited presentations and speaker contributions concerning the planning, design, construction, and operation of EV and battery manufacturing facilities.
- Also served as Conference Chairman, Panel Moderator, and Invited Speaker.

Invited Industry Summits, Speaking Engagements & Panel Participation

2nd Constructing Mega Facilities Summit: Advances in Planning, Design and Engineering
Organizer: INNOVATRIX Sep. 23–24, 2026
Selection Criteria: Invited Speaker & Panelist Houston, Texas

- Scheduled to co-present *"Constructing for Production Readiness: Integrating MEP Construction, Commissioning, and Production Control."*

4th Gigafactory Summit: Construction, Efficiency, and Operations
Organizer: FUTURE BRIDGE Feb. 24–25, 2026
Selection Criteria: Invited Speaker Frankfurt, Germany

- Received a formal invitation to speak at an international industry summit focused on gigafactory construction, operational efficiency, and manufacturing systems.

4th Excellence in Construction, Design & Engineering of EV & Battery Factories Forum for North America
Organizer: TBM GROUP Feb. 4–5, 2026
Role: Conference Judge, Chairman, & Panel Moderator Orlando, Florida

- Served in multiple event roles as conference chairman, presentation evaluator, panel moderator, and invited expert speaker.

– Participated in conference programming that included speaker review, panel moderation, and technical discussion on EV and battery manufacturing infrastructure.
– Moderated expert panel discussions involving design, construction, and operational issues in large-scale EV and battery factory projects.

4th Battery Gigafactory Summit USA
Organizer: INNOVATRIX Oct. 28–29, 2025
Role: Invited Speaker & Panelist Nashville, Tennessee

– Received exclusive invitation to present and speak on challenges and solutions of modern battery gigafactory construction.
– Served on an expert panel participant.

Future of U.S. Battery & Cleantech Giga Factories Summit
Organizer: FUTURE BRIDGE Sep. 23–24, 2025
Role: Invited Speaker & Panelist Atlanta, Georgia

– Received exclusive invitation to present and speak on challenges and solutions of modern battery gigafactory construction.
– Served on an expert panel participant.

Professional Leadership

- **IEEE Savannah Section (IEEE Region 3)** *2026 – Present*
  Interim Vice Chair Savannah, Georgia, USA

– Appointed as Interim Vice Chair of the IEEE Savannah Section.
– Support section governance, planning, and execution of section's professional and technical activities.
– Chair and lead programming in the Chair's absence.
– Coordinate technical programs, invited talks, industry engagement, and member-development initiatives.
– Contribute to leadership coordination with IEEE Region 3 and section-level volunteer activities.
– Support member and industry engagement.

Selected Media Coverage & Professional Features

MyJoyOnline	*"Engineering rooted in purpose: How Felix Adabla's KNUST years shaped a path of innovation,"* academic feature concerning electrical capstone engineering project novelty, energy systems, and industrial infrastructure.	Oct. 2019
Citi Newsroom	*"From Engineering Foundations to Industry Leadership: The Evolving Technical Voice of Felix Adabla,"* media publication discussing professional experience, engineering contributions, and industry leadership.	Jan. 2026
IEEE Savannah Section	*"Advancing Reliability Optimization in Power Electronics: Research and IEEE Perspectives,"* leadership profile published by the IEEE Savannah Section.	Jan. 2026
All Around Worlds	*"Global Business Leaders to Admire and Follow in 2026,"* feature published as part of monthly magazine cover feature.	Jul. 2026

Global Times Now — *"The Most Remarkable Leaders to Watch in 2026,"* spotlight of professional, academic and community engagement by an international magazine. — Sep. 2026

Professional Certifications

- **Project Management Professional (PMP)®**, Project Management Institute, 2026.
  - Certification Number: 4497551

Honors & Distinctions

- **Outstanding Member Retention Performance in the Savannah Section** — *2026*
  Institute of Electrical and Electronics Engineers (IEEE) — Savannah, USA
  - Professional award in recognition of leadership of local IEEE Section in surpassing goals for member retention for the 2026 membership year.

- **Certificate of Achievement** — *2024*
  Office of Multicultural Affairs, Georgia Southern University — Statesboro, GA
  - Recognition for leadership and service contributions within the university community.

- **Certificate of Appreciation** — *2023*
  EnCorps STEMx Tutors — Remote, USA
  - Recognition for volunteer contributions supporting STEM education initiatives for under-resourced student populations.

- **Sub-Contractor Employee of the Year** — *2021*
  OWER/ORSAM Energies — Tema, Ghana
  - Company award recognizing professional contribution to industrial electrical project execution.

- **Leadership Recognition** — *2018 – 2019*
  Ghana Engineering Students Association (GESA), KNUST — Kumasi, Ghana
  - Recognized for leadership service as Deputy Chairman, Volunteering Committee, and Tutor, Academic Board Committee.

- **Excellent Student Award (Provost's List)** — *2016 – 2018*
  College of Engineering, Kwame Nkrumah University of Science and Technology (KNUST) — Kumasi, Ghana
  - Awarded for sustained academic excellence and top-tier performance within the College of Engineering across multiple academic years.

Professional Memberships & Technical Affiliation

Institute of Electrical and Electronics Engineers (IEEE) — Aug. 2025 – Present
- Professional member of IEEE.

IEEE Power Electronics Society (PELS) — Feb. 2025 – Present
- Member of the IEEE Power Electronics Society.

Academic Teaching Experience

- **Georgia Southern University** *Aug. 2022 – May 2024*
  Graduate Teaching Assistant, Department of Electrical and Computer Engineering Statesboro, GA
  - Supported instruction in power electronics, control systems, and related electrical engineering coursework.
  - Assisted graduate and senior-level students with technical projects involving converter modeling, simulation, and performance analysis.
  - Reviewed student assignments, reports, laboratory work, and project materials in electrical engineering courses.
  - Supported laboratory activities involving analysis and verification of converter performance under varying operating conditions.

Public STEM Engagement & Professional Outreach

- **STEM Outreach Programs, Georgia Southern University** *2023 – 2024*
  Technical Outreach Contributor Statesboro, GA
  - Participated in public-facing STEM outreach initiatives, including Engineers of Tomorrow, Governor's Honors Program engagement, Eagle Preview events, and Major's Fair programs.
  - Delivered demonstrations and explanatory sessions introducing students and families to applied electrical engineering concepts and career pathways.
  - Contributed technical perspective in community-facing programs supporting STEM awareness and engineering education.

- **Eaglet Project, Gretsch Music School** *Jan. 2023*
  STEM Demonstration Contributor Statesboro, GA
  - Presented Arduino-based demonstrations to introduce foundational engineering concepts to elementary-level students.