



KAVIN LOUWELL MADARANG

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PROFESSIONAL SUMMARY

- Strong proficiency in electrical design involves a combination of technical knowledge and practical skills, including a deep understanding of electrical engineering principles, mastery of AUTO-Cad and knowledge of industry standards and codes such as NEC, IBC and SBC.
- Knowledgeable electrical professional and analytical problem-solver with deep knowledge of electrical principles, equipment and systems. Focused on balancing quality, safety and performance.
- Senior Electrical Engineer with 17+ years of experience, with high degree qualification. Experienced in major engineering standards associated with control gear components and electrical power stations. Continuously applies principles of electrical theory to advance and improve product development and efficiency.
- Friendly and proactive team player committed to improving engineering methods and techniques. Experienced at creating project plans and models, prototypes and circuit diagrams for high and low voltage electrical equipment. Uses resourcefulness and problem-solving mindset to complete projects swiftly and to high standards,
- Reliable engineering professional with experience completing range of electrical engineering projects. Hardworking, knowledgeable and dependable individual. Proven success in overseeing maintenance, inspection and system upgrade program.
- Loyal employee with solid understanding of training and mentoring employees. Dedicated team player, proactive and hands-on in task completion.

WORK HISTORY

SENIOR ELECTRICAL ENGINEER, 05/2014 - Current

Ministry of Defense and Aviation - MODA, Al Kharj, Riyadh Region

- Developing design, approved and implement of various systems, including low current system, FAS, PA system, Communication/LAN system, Low voltage and Medium Voltage electrical system. Ensuring compliance with engineering standards and safety regulations.
- Prepare detailed technical drawings at site.
- Oversee and manage electrical engineering projects, including supervising technicians and craftspeople, coordinating task and ensuring timely completion.
- Ensure all electrical system adheres to safety protocols and standards, conducting regular inspections and assessments to minimize risk.

- Prepare and maintain detailed technical documents, including design plans, feasibility studies and project reports to support engineering processes.
- Continuously evaluate and improve electrical systems for enhanced performance, reliability and efficiency.
- Work closely with cross-functional teams to design and implement innovative solutions, enhancing plant performance and overall project success.
- Provide guidance and training to team members, fostering a culture of continuous improvement and skill development.
- Prepare estimate costs of electrical projects and ensure cost effectiveness.
- Conduct thorough design reviews, identifying potential issues and implementing corrective measures to guarantee project quality.
- Keep and accurate and up to date records for all electrical design changes, maintenance activities and system performance for future reference.
- Monitoring of project schedule for its early completion and ensure that the project was systematically done in a profession manner.
- Leading a team to perform testing and commissioning of electrical system and equipment to ensure functionality and safety.
- Coordinate with other engineers, contractors, and Head Military Officers to ensure project success.

3RD ASSISTANT ELECTRICIAN, 08/2013 - 06/2014

Royal Caribbean Cruises Ltd. - RCCL, Miami, USA

- Supporting the ship Chief Engineer and officers with maintenance, repair and installation of all electrical systems, from lighting and outlets to complex machinery and control system.
- Performing routine tasks like replacing bulbs, diagnosing faults and conducting preventive maintenance, while also learning advances techniques for complex systems.
- Diagnosing and resolving electrical issues with various systems, from simple faults to more complex problems involving motors of control panels.
- Performing routine checks and maintenance as part of a planned maintenance schedule.
- Ensuring all electrical work complies with maritime safety regulations, company policies and international standards. This also includes maintaining equipment and following safety protocols.
- Monitoring stock levels for parts and electrical consumables, and reporting them to the Chief Electrical Engineer and storekeeper.

ELECTRICAL ENGINEER, 08/2006 - 05/2012

Ministry of Defense and Aviation - MODA, Al Kharj, Riyadh Region

- Create designs for electrical systems and components, develop technical specifications and drawings, and perform feasibility studies.
- Develop and manage project plans, schedules, and budgets, and oversee all project phases from conception to completion.
- Conduct design reviews, ensure compliance with regulations and safety standards, and manage technical issues and risks.
- Supervision the installation of electrical system, provide technical support to contractor's teams, and conduct site inspection.
- Consult and approve electrical plans and design coming from contractors.
- Perform testing and commissioning of all electrical system and equipment to ensure functionality and safety.
- Prepare and maintain project documentation, including reports, drawings, and technical specifications.

- Coordinate with other engineers, contractors and Officers in Charge to ensure project success.
- Implement quality control procedures and conduct audits to ensure adherence to standards.

STREETLIGHT STAFF, DISPATCH STAFF, LINEMAN TRAINEE, 06/2005 - 02/2006

Davao Light and Power Company / Aboitiz Company, Davao City, Philippines

- Worked with colleagues to streamline administrative processes and improve workflow.
- Handled incoming calls for staff, answering questions, directing calls and documenting messages.
- Responded promptly to phone and email inquiries.
- Managed office supplies and inventory for day-to-day operations.
- Data Control and assist in streetlight activities.
- Assist in dispatching activities.
- Undergo basic lineman training.

SKILLS

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| • Electrical engineering | • Schematic layouts |
| • Electrical testing and troubleshooting | • Load flow studies |
| • Circuit and wiring drawings | • Cost estimation |
| • Microsoft PowerPoint | • Advanced critical thinking |
| • Power systems | • Extensive AutoCAD knowledge |
| • Wiring schematics | • Project budgeting |
| • HV/LV distribution systems | • 2D CAD |
| • AutoCAD electrical | • AutoCAD specialist |
| • Technical support | • Design substantiation |
| • Cable schedules | |

EDUCATION

University of Mindanao, Davao City, Philippines, 06/1998 - 10/2004
Bachelor of Engineering: Electrical

LANGUAGES

English	Arabic
Fluent	Advanced

HOBBIES AND INTEREST

- Reading latest technology
- Cooking
- Playing Sports
- Livestock Farming
- Designing using Sketchup
- Outdoor Camping

CERTIFICATIONS AND LICENSES

- Registered Electrical Engineer - Philippines
- Institute of Integrated Electrical Engineer Member - Philippines
- Saudi Council for Engineers Member - Kingdom of Saudi Arabia

REFERENCES

References available upon request.