

CURRICULUM VITAE- ENG. PAUL OUMA ADEDE

BTech(Elect), PEng, MIEK, SMC



PERSONAL DETAILS

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| Position | Principal Engineer and Energy Officer | |
| Present Employment | Name of Employer MOI TEACHING AND REFERRAL HOSPITAL P.O. BOX 3-30100 ELDORET | |
| Date of Birth | 22nd December, 1982 | ID NO.: 22983303 |
| E-mail: p.adede@yahoo.com | | Mobile: 0705-821105 |
| Gender: Male | Married | Citizenship: Kenyan Home Address: P.O. Box 83-40101 AHERO. P.O. Box 33291-30100 ELDORET |

CAREER OBJECTIVES

I have over 10 years' experience in Electrical and Biomedical Engineering; planning, developing technical specifications, equipment selection, developing line diagrams, designing and providing engineering support during tender administration, implementation, construction, installation, commissioning and maintenance and also implementation of energy management and conservation initiatives. I have worked in sugar industry, food, chemical and currently principal engineer at Moi Teaching and Referral Hospital. I am also a member of Board of Management of St. Charles Lwanga Secondary School-Nyamkebe. I am dedicated, hardworking, team leader with excellent intercommunication skills and high integrity.

PROFESSIONAL ASSOCIATION MEMBERSHIP

- **Engineers Board of Kenya:** Registered Electrical Engineer with valid practicing license (**A3143**). I am fully conversant with KS, IEEE, IEC, NEC and ANSI standards.

- **Energy and Petroleum Regulatory Authority:** Certified Electrician class A1 (License No: A1 005501)
- **Institute of Engineers of Kenya:** Corporate Member (**Membership No: M4395**).
- **National Construction Authority (NCA):** Licensed Construction Site Supervisor for Electrical Works (**Reg. No. NCA/SS/2017/27286**).

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| PROFESSIONAL ENGINEERING PROJECT UNDERTAKEN |
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ELECTRICAL PROJECTS DONE AT MOI TEACHING AND REFERRAL HOSPITAL, P.O. BOX 3-30100 ELDORET.

I am Principal Engineer at Moi Teaching and Referral Hospital, in charge of electrical engineering section. In the course of my day-to-day activities, I have successfully accomplished the following projects:

- i. Designed and supervised installation of Solar Powered LED Security Lights
- ii. Supervised installation and commission of 64 slice CT Scan.
- iii. Supervised installation and commission of Microwave Incinerator.
- iv. Supervised installation and commission of 330KVA standby generator.
- v. Replaced the 120sq.mm power supply cable for the incinerator.
- vi. Replaced the fluorescent lights with LED lights.
- vii. Supervised the installation of 150KVA voltage stabilizer for the 32 slice CT Scan.
- viii. Improved the earthing of pharmacy cold room.
- ix. Supervised Installation of Laundry Washing machine.
- x. Supervised the Investment Grade Energy Audit in the hospital.
- xi. Spearheaded the Hospital Energy Management Policy.
- xii. Designed and supervised electrical installation at Histopathology laboratory.
- xiii. Supervised maintenance of hospital standby diesel generators.
- xiv. Supervised electrical installation maintenance in the hospital.
- xv. Supervised installation and commission of 132 slice CT Scan.
- xvi. Supervised installation and commission of renal equipment for dialysis.
- xvii. Designed and supervised installation and commission of water pump for CCCDC.

ELECTRICAL PROJECTS DONE AT AGRO-CHEMICAL AND FOOD CO. LTD, P.O. BOX 18 MUHORONI

- i. Designed and supervised electrical installation for spirit bottling plant.
- ii. Designed and supervised electrical installation for carbon dioxide plant.
- iii. Replaced ordinary Motors with energy efficient motors.
- iv. Spearheaded purchase of Electrical tools and instruments.
- v. Replaced degraded power supply cables for boilers.
- vi. Designed and supervised installation of Low voltage power distribution switchboard of 3200A with two transformers connected in parallel.
- vii. Designed and supervised installation of 120KVAR PFC bank for ETP.
- viii. Designed and supervised installation of ETP aerators.
- ix. Designed and supervised installation of ETP Site 1 Power Distribution Panel.

- x. Supervised Installation of Solar Powered Led Street Light.
- xi. Supervised Installation of Energy Meters outside at Unirector Estate.
- xii. Designed and supervised installation of 1000A 4P by-pass switch for 500KVA DG SET.
- xiii. Carried out Electrical Statutory Factory Inspection and Earthing Correction as per Energy Act, 2006.
- xiv. Supervised installation of Power quality analyzer and earthing rubber mat for LT panel.
- xv. Designed Electrical Wiring and Installation at MD Resident.
- xvi. Designed and installed motor control centre (MCC) complete with all accessories.
- xvii. Designed and supervised installation of new molasses clarifier.
- xviii. Designed and supervised installation of electrical system for static mixer.
- xix. Designed and supervised electrical installation of new mash circulation system.

ELECTRICAL PROJECTS DONE AT SOUTH NYANZA SUGAR COMPANY, P.O. BOX 107 AWENDO

- i. Successfully Designed and Supervised Electrical System of New Juice Clarifier.
- ii. Designed and supervised overhead power distribution line for effluent treatment plant.
- iii. Provided Engineering Estimates of Electrical installation for new electrical offices.
- iv. Provided Engineering Estimates for Electrical installation designed of 75KW River pumps motor.
- v. Designed and supervised installation of low frequency alarm systems.
- vi. Team Leader for Implementation of SAP- ERP project- Mwangaza 2013.

RESPONSIBILITIES AT CURRENT EMPLOYER

Organization : MOI TEACHING AND REFERRAL HOSPITAL P.O. Box 3-30100 ELDORET.

Duration : FROM NOVEMBER 2016 TO DATE.

Title : ELECTRICAL ENGINEER

Area Of Work :

- Ensure proper running and optimum operation of all electrical equipment in the Institution.
- Co-ordinate and supervise repairs and maintenance of all electrical / instruments equipment to ensure that downtime is minimised.
- Ensure that power from Kenya Power and Lighting Company (KPLC) is within acceptable voltage and frequency.
- Ensure that preventive maintenance of all electrical equipment and power switchgears is carried out.
- Propose the annual revenue/ operation (OPEX) and capital (CAPEX) budget for electrical sections for approval and new and/or upgrade of electrical projects and systems.
- Ensure that there are sufficient spares for all electrical and power systems related equipment.

- Attend to issues related to power supply and distribution to institution housing estates and other electrical repairs in the doctors' village.
- Ensure safe use of all electrical equipment and accessories and also ensure safety of all electrical equipment and workers.
- Help in settling and handling of workers' industrial disputes and takes disciplinary action as necessary.
- Provide technical leadership to teams to enable them develop, implement and evaluate strategic management plans and budgets aimed at improving performance standards and organizational effectiveness- implementation of capital budget.
- Participate in the recruitment and selection of staff in order to ensure that the candidates selected have the required job competencies and are provided with orientation and induction programme necessary for effective job performance
- Review incidents of violations against organizational policy and regulations as well as handle employee disputes and take appropriate action in line with approved policies, procedures and regulations
- Conduct training needs assessment, design and implement training programmes aimed at equipping staff with appropriate job competencies in order to improve the design and delivery of high quality services
- Plan, monitor and evaluate the performance of staff against set targets and objectives and implementing development action plans aimed at building the capacity of individuals and multi-disciplinary teams.
- Ensure conformity of QMS and OSHA, quality working environment, health and safety policies.
- Prepare sectional monthly report and maintain various records as required by the institution and other statutory agencies.
- Develop specification for replacement and repairs of any electrical related jobs.
- Carry out technical evaluation for purchase of all electrical spares and equipment.
- Any other duties assigned from time to time.

Organization : AGRO-CHEMICAL AND FOOD COMPANY LTD, BOX 18-40107 MUHORONI

Duration : FROM AUGUST 2013 TO OCTOBER 2016.

Title : ELECTRICAL ENGINEER

Area Of Work :

- Propose any electrical system upgrade or new technology to improve production within the approved budget.
- Ensure proper running and operation of all electrical equipment in the factory.
- Co-ordinate the repairs and maintenance of all electrical / instruments equipment to ensure that downtime is minimised.
- Ensure that power from Kenya Power and Lighting Company (KPLC) and own generation is of acceptable voltage and frequency.
- Ensure that preventive maintenance of all electrical equipment and instrumentation is carried out.
- Propose the annual operating and maintenance budget for electrical and instruments sections

for approval.

- Ensure that there are sufficient spares for all electrical/ instruments equipment.
- Attend to issues related to power supply and distribution to company housing estates
- Ensure safe use of all electrical equipment and accessories and also ensure safety of all electrical equipment and workers.
- Help in settling and handling of workers' industrial disputes and takes disciplinary action as necessary.
- Provide technical leadership to teams to enable them develop, implement and evaluate strategic management plans and budgets aimed at improving performance standards and organizational effectiveness.
- Participate in the recruitment and selection of staff in order to ensure that the candidates selected have the required job competencies and are provided with orientation and induction programme necessary for effective job performance.
- Review incidents of violations against organizational policy and regulations as well as handle employee disputes and take appropriate action in line with approved policies, procedures and regulations.
- Conduct training needs assessment, design and implement training programmes aimed at equipping staff with appropriate job competencies in order to improve the design and delivery of high quality services
- Plan, monitor and evaluate the performance of staff against set targets and objectives and implementing development action plans aimed at building the capacity of individuals and multi-disciplinary teams.
- Ensure conformity of QMS, EMS, and OSHA, quality working environment, health and safety policies.

Organization : SOUTH NYANZA SUGAR COMPANY LTD, P.O. BOX 107 SARE-AWENDO

Duration : 1 ½ years

Title : ELECTRICAL SUPERINTENDENT

Area Of Work :

- Carry out design for any upgrade and new electrical system in organization.
- Responsible for maintenance of all electrical machines and their repairs.
- Secretary of corporate energy management committee.
- Responsible for execution of Electrical and instrument projects.
- Responsible for both preparation and execution of Operation and Capital budgets.
- Responsible for continual review of the preventive and corrective maintenance schedules and manuals.
- Responsible for implementation of QMS, EMS and energy management policies and procedures.
- Facilitator of ISO (QMS, EMS& EnMS) sensitization to staff of manufacturing department.
- Responsible for estates electricity bill analysis.
- Has been a member of various technical tender evaluation committees.
- I am in-charge of and team leader for SAP-ERP Manufacturing implementation

team whereby we are implementing three modules (Quality Management module, Plant Maintenance module and Production Planning module).

- Responsible for operation of substation equipment, to include breakers, regulators, transformers, circuit switchers, air switches, battery banks, and battery chargers.
- Responsible for calibration and testing of protective relaying system.
- Programs the PLC's (Programmable Logic Controllers), VSD's and VFD's for various systems water systems.
- Responsible for maintenance and service of the SCADA system and CCTV and its auxiliaries.
- Participated in conference calls and meetings to discuss products, action plans and team performance.
- And any duty given by Electrical Engineering Manager.

Organization : SOUTH NYANZA SUGAR COMPANY LTD, P.O. BOX 107 SARE-AWENDO

Duration : 2 YEARS

Title : ELECTRICAL TRAINEE ENGINEER

Area Of Work :

- Learnt about Turbine Alternator operation, maintenance& servicing.
- Electrical motors maintenance and servicing.
- Secretary of manufacturing department energy management committee.
- Trained on ISO 14001: 2004.
- Operation of substation equipment, to include breakers, regulators, transformers, circuit switchers, air switches, battery banks, and battery chargers.
- Assisted in calibration and testing of protective relaying system.
- Participated in conference calls and meetings to discuss products, action plans and team performance.
- And any duty given by Electrical engineering manager.

Organization : KENYA POWER& LIGHTING COMPANY LTD, P.O. BOX 74 ELDORET

Duration : 4 MONTHS

Title : STUDENT INTERN

Area Of Work :

- High voltage switchgear testing and commissioning on site.
- Distribution transformer rewinding, assembling and testing.
- Operation of substation equipment, to include breakers, regulators, transformers, circuit switchers, air switches, battery banks, and battery chargers.
- Exposed to operation protective relaying system.

Organization : KENYA INDUSTRIAL RESEARCH AND DEVELOPMENT INSTITUTE,
P.O BOX 30650-00100 NAIROBI

Duration : 4 MONTHS

Title : TECHNICIAN

Area Of Work :

- Integrated in the Documentation team of 4K MSE 2030 Initiative project where we carried out the following:
- Assisted in the upgrading of the local JuaKali manufactured Arc-Welding machine to meet International standard.
- Assisted in making the Operation Manual of Arc-Welding machine.
- Assisted in making the Design Manual of Arc-Welding machine.
- Assisted in carrying out Cost Analysis of the manufactured Arc-Welding machine.
- Participated in conference calls and meetings to discuss products, action plans and team performance.

Organization : CHEMELIL SUGAR COMPANY LTD, P.O BOX 1649 KISUMU

Duration : 3 MONTHS

Title : STUDENT INTERN

Area Of Work :

- Exposed to operation & powering of the cranes.
- Assisted in servicing of contactors and motors.
- Exposed to maintenance and servicing of chute level controls, contactors and intercarriers.
- Repairing of an Electrical drill with an open circuit.
- Operation of substation equipment, to include breakers, regulators, transformers, circuit switchers, air switches, battery banks, and battery chargers.
- Exposed to operation of protective relaying system.

Organization : PANNA MUSIC CENTRE, P.O BOX 1752 ELDORET

Duration : 2 MONTHS

Title : TECHNICIAN

Area Of Work :

- Testing and demonstrating to customer how to use public address system.
- In charge of after sale services.
- Participated in conference calls and meetings to discuss products, action plans and team performance

Organization : MOI UNIVERSITY, P.O BOX 3900 ELDORET

Duration : 4 MONTHS

Title : STUDENT INTERN

Area Of Work :

- Trained on workshop equipments and practices.
- Fieldwork and Workshop practice.

EDUCATION AND PROFESSIONAL DEVELOPMENT TRAINING

| School/ College/ Institution | From | To | Qualification/ Course done |
|---|----------------------------------|-----------------------------|--|
| Atemo Pri. School, Box 5 Oyugis | 1988 | 1995 | K.C.P.E |
| Hono Sec. School, Box 364 Siaya | 1997 | 2000 | K.C.S.E |
| Moi University, Box 3900 Eldoret | 2003 | 2009 | Bachelor of Technology in Electrical and Communications Engineering |
| Energy and Petroleum Regulatory Authority | May 2017 | To date | Certified Electrician A1 (A1 005501) |
| Engineer's Board of Kenya | March 2012 | Nov. 2016 | Graduate registered engineer (B6869). |
| Engineer's Board of Kenya | Nov. 2016 | To date | Registered Professional Engineer (A3143) with valid practicing license |
| National Construction Authority | May 2017 | To date | Construction Site Supervisor for Electrical Works Reg. No: NCA/SS/2017/27286 |
| Institution of Engineers of Kenya | July 2012 | April 2019 | Graduate member of Institution of Engineers of Kenya (G4395). |
| Institution of Engineers of Kenya | May 2019 | To Date | Corporate Member of Institution of Engineers of Kenya (M4395). |
| SonySugar Co. Ltd, Box 107 Sare-Awendo. | Feb., 2010 | Feb., 2012 | Management trainee in Electrical engineering division. |
| SKF Reliability systems Training | 26 th Oct., 2012 | 29 th Oct., 2012 | Bearing Technology and Power Transmission Training. |
| Viscar Industrial Capacity Ltd | 7 th June 2012 | 9 th June 2012 | Energy Management Training. |
| SKF Reliability Systems Training | 25 th July 2012 | 27 th July 2012 | Infrared Camera Operation Training. |
| Institution of Engineers of Kenya. | 8 th September, 2012. | One day | Professional Interview Preparation Seminar. |

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| SonySugar Co. Ltd, Box 107 Sare-Awendo. | 21 st Feb, 2012. | July 2013 | Electrical Superintendent. |
| Viscar Industrial Capacity Ltd | 18 th Dec., 2012 | 11 th Jan., 2013 | PLC, VSD and SCADA Training. |
| Agro-chemical and food company Box 18-40107 Muhoroni | August 2013 | October 2016 | Electrical Engineer. |
| Hammond Tutu& Gunther Co. Ltd | 23 rd & 24 th June 2014 | 2 days | Finance Training for Non- Finance Manager. |
| Health and Safety Consultants Co. Ltd | 6 th to 9 th January 2015 | 4 days | Occupational, Health and Safety Training. |
| Moi Teaching and Referral Hospital P.O. Box 3-30100 Eldoret. | November 2016 | To date | Electrical Engineer |
| Energy Regulatory Commission P.O. Box 42681-00100 Nairobi | 30 th March 2017 | 1 day | Electricity and Renewable Energy Stakeholders Workshop Held in Eldoret. |
| Kenya Association of Manufacturers | 23 rd to 25 th August 2017 | 3 days | Boilers and Steam Systems Training |
| Kenya School of Government Lower Kabete, NAIROBI | 28 th August To 22 nd Sept, 2017 | 4 weeks | Senior Management Course |
| Energy Regulatory Commission, Kisumu | 7 th to 8 th Dec., 2017 | 2 days | Energy Policy Formulation and Guidelines Training. |
| Kenya Bureau of Standards, Nobel Hotel Eldoret | 23 rd June 2018 | 1 day | ISO 31000:2018 Risk Management Systems |
| Bureau Veritas Kenya, Pearl Hotel Eldoret | 19 th to 21 st Sept., 2018 | 3 days | ISO 45001:2018 Occupational, Health and Safety Management Systems |
| Viscar Industrial Capacity Ltd, Nairobi | 24 th to 28 th Sept., 2018 | 5 days | Project Management Incorporating MS- Project Training for Engineers |

COMPUTER SKILLS

| <u>Package</u> | <u>Level</u> |
|-------------------|--------------|
| Internet Explorer | Operational |
| MS Access | Operational |
| MS Excel | Operational |
| MS Word | Advanced |
| MS Office | Advanced |
| MS PowerPoint | Intermediate |

ROLES AND EXPERIENCE:

- I am committee member of intercessory team of Holiness and Repentance Ministry, Roadblock Altar.
- Registered Professional Engineer by Engineers Board of Kenya.
- Graduate member of Institution of Engineers of Kenya.
- I was member of **Moi University Christian union students association.**
- I was member of the **Technology student association, TSA association of engineering students of Moi University.**

PERSONAL SKILLS:

- Good personality and high integrity
- Excellent communications skills.
- Ability to build credibility and work effectively with multicultural individuals.
- Coordinating, planning and running work tasks and assignments with minimum supervision.
- Flexibility and ability to take up new challenges and responsibilities.
- Team-player; and jovial to work with.

AREAS OF INTERESTS

- Power Systems
- Electromagnetics and Applications
- Power Systems Protection and Switchgears
- Digital Systems and Design
- Biomedical Devices and Systems
- Electric Drives and Automation

REFERENCES:

Reference 1:

Name: Eng. Joseph Atogo
Co/Organization: Moi Teaching and Referral Hospital
Address: P.O. Box 3-00300 Eldoret
Position: Hospital Engineer
Tel No: 0733-558666

Reference 2:

Name: Eng. Eric Ngage
Co/ Organization: South Nyanza Sugar Company Limited
Address: P.O Box 107- AWENDO
Position: Planning and Project Engineer
Tel No: 0722-632466

Reference 3:

Name: Pastor Meshack Orwa
Co/ Organization: Holiness and Repentance Ministry, Awendo Alter
Address: P.O Box 120 SARE- AWENDO
Position: Senior pastor
Tel No: 0711-109232