

CV – Masendi Patrick

Personal Information

Name: Masendi Patrick

Address: Centre for Research in Energy and Energy Conservation (CREEC), Makerere University,
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Phone: +256788302397, +256756631667. **Driving license:** Class B. **Language:** Luo & English

Work Experience

Year **Oct. 2022 - Dec.2023**

Employer: Centre for Research in Energy & Energy Conservation (CREEC)

Position: Project Coordinator-Solar Department

Major Responsibilities

- Head of Solar PV Laboratory, - Schedule and supervise work in the solar PV section.
- Establish new projects and ventures for the solar PV section.
- Carry out training in solar PV technologies, - Ensure quality of reports submitted to clients.
- Initiate contact and liaise with clients and prepare T.o.R's and MoU's.
- Forge new alliance and follow up old clients, - Develop and monitor section project budgets.
- Develop design specifications and functional requirements for solar energy.
- Project Acquisition through proposal writing and Knowledge Management

Year **Jan. 2018 - Sept.2022**

Employer: Centre for Research in Energy & Energy Conservation (CREEC)

Position: Deputy Head of Solar Department

Major Responsibilities

- Offering technical trainings on solar PV technology (design, installation, O & M)
- Preparing training materials on solar PV technologies
- Overseeing testing of solar products in conformity with IEC & Uganda Standards.
- Project coordination and implementation
- Proposal writing

Year **Feb. 2014 -Dec. 2017**

Employer: Centre for Research in Energy & Energy Conservation (CREEC)

Position: Solar PV technician.

Major Responsibilities

- Promotion of solar technology under the presidential initiative.
- Implementation of solar energy kiosk in off-grid area.
- Solar PV technician training on designing, installation, troubleshooting, O & M.
- Testing solar products according to lighting global and IEC test standards.
- Coordinating solar school clubs.

Some of the projects being implemented and completed in the past years.

Partner/Client	Project detail	Key role played
World Resources Institute	Research on healthcare electrification and the PUE to drive development 2023	-Project coordinator and research on PUE
GIZ E4D	Provision of solar PV Mini grid training to government officials in the ministry of energy 2023	-Lead technical trainer on Mini grid and content development
ARE/UNIDO	Provision of services related to the development of regional solar energy qualification frameworks and curricula in ECOWAS, EAC and the Pacific, 2023	-Junior local expert representing East Africa under CREEC
UK Innovate	Energy catalyst 9– Hydro wheel products and business case development in Uganda 2023	-Coordination with stakeholders and lead technical expert on hydro feasibility study
GIZ Endev	Provision of consultancy services for awareness creation, training, and advisory services on Solar powered irrigation in East and Central Uganda.	-Team coordination and -Stakeholder management -Technical trainer
GIZ RISE	Instant training for solar PV technicians in the refugee host districts of Adjumani, Moyo, Madi-Okolo and Obongi 2022 -2023 Phase 1 and 2	-Coordination with stakeholders -Delivering technical training
GIZ GBE Small Project Fund	Capacity development of solar PV technicians with focus on troubleshooting, repairs, and maintenance in (North, East, South and West) 2022	-Project technical lead and coordination, overseeing all trainings
IMEU	Consortium project between SNV, PSFU & CEDAT focusing on energy efficiency in agriculture and built environment 2021-2024	-Research associate on energy efficiency in Agriculture with focus on drying and development of energy saving modules to guide SMEs
GGGI	Promoting Solar Powered Irrigation System (SPIS) in Uganda 2021/2022	-Providing technical trainings to technicians and district engineers
CREEC/EWB	Partnership project to deliver technical training on solar powered irrigation system at CREEC Makerere University	-Mobilization of participants -Provision of technical training
GIZ-GBE	Rehabilitation of 30 solar PV systems at selected health centres in northern Uganda. (2020- 2021)	-Technical lead solar PV system design, developing, B.o.Q & costing
MECS-CREST	Piloting e-cooking power hubs both DC & AC hubs sources	-Technical lead in assembly of power hub units, testing, & installation
Herona Hospital	Baseline energy audit for Herona hospital in Mukono, 2021.	-Conducting baseline energy audit -Analysis and reporting
GIZ-GBE	Development of assembly and exercise manuals for solar PV training stand for vocational training institutes in Uganda 2021.	-Technical lead in charge of drawings, development of both assembly & exercise manuals -Conducting trainings for 5 groups of T.o.Ts in Northern Uganda

Partner/Client	Project detail	Key role played
GIZ Endev	Verification of SHS sales made by distribution partner companies under the last - mile Result Based Finance (RBF) Program. 2021-2022	-Field inspection of systems installed & assessing customer's level of satisfaction
TUM SEED/MAK	Development of living lab for the community in Kyampisi Luwero Nov. 2020- Dec 2022	-Technical expert on design of 10kW solar PV system and 16m ³ biogas plant
IFC/World Bank group Refugee project	Study to identify opportunities for private sectors in refugee hosting areas of Uganda with focus on energy. (February 2020)	-Lead field supervisor for all the 11 districts. -Developing data collection tool, and training of enumerators
IITA	Baseline energy audit and solar PV system design (45 kWp PV system) 2022	-Data acquisition, processing, system design and installation inspection
BEE –UK Innovate (UKRI)	Quantifying & categorizing surplus energy supply, surplus solar power packaging as well as enhancing biogas production with surplus solar power. 2019-2022	-Project engineer CREEC in charge of technical surveys, Installation of energy meters, and piloting productive use of biogas & solar
GIZ	Conducting baseline assessments for market-based energy access for scale up project in 4 refugee settlements in Uganda.	-Proposal writing & survey design -Coordination and supervision
GIZ	Independent verification audit (IVA) for solar home system and grid densification across Uganda (2019–2020)	-Data collection -Installation verification for both solar and grid power
UNCDF	Capacity building in the solar sector for technicians (in Mbale and Arua) & stakeholders (URA, UNBS) training (2019)	-Lead trainer -Mobilization of trainees & training Materials including content
UNDP & MEMD	Solar PV technician training-Kitgum and Lamwo (Feb/March,2019)	-Lead trainer -Mobilizing trainees & content dev't
WFP/OPM	Support for the implementation of the environmental impact of settling refugees in refugee hosting area in Uganda (2018)	-Field personnel and supervisor in charge of data collection and management
DIT/HWK project	Development of National curriculum for solar assessment and training package level 1 & 2 2016	-External technical expert on solar PV technology
GIZ	-Data collection and analysis on solar PV market development in Uganda Phases 1 & 2. -Study on challenges for private sector led investments in small scale renewable energy businesses in Uganda (2014-2016)	-Field personnel for social and technical surveys, filed audits of solar systems
Presidential Initiative	Part of government's strategy to build the country's scientific and technological capacity to facilitate its development efforts on a sustainable basis (July 2014- Dec. 2016) 10 kWp CEDAT solar system	-Lead solar technician trainer -Promotion & awareness organizer -Radio talk shows

GIZ	Conducting baseline assessments for market-based energy access for scale up project in 4 refugee settlements in Uganda.	-Proposal writing & survey design -Coordination and supervision
Various private sector and (inter)national NGOs	Training, testing of solar equipment, and consultancy services in renewable energy with focus on household energy, energy efficiency, rural electrification, energy for productive use	-Lead Trainer for solar -Coordination -Technical support
Horizont3000	Powering Watoto homes (orphanage) with solar PV systems	-Technical field assistant and installation inspector.
ARTI Energy	Conducted kitchen performance test on envirofit cook stoves in Tanzania 2014 and 2017	-Field technician

Trainings acquired.

- Participated in ISA's online training on solar powered irrigation system 2023.
- Participated in renewable energy training by Life Academy at Life Centre, Sweden 2023.
- Participated in renewable energy training by Life Academy at Kafue Gorge Regional Training Centre 2023.
- Participated T3 solar Grid tie training at Strathmore Nairobi 2023.
- Participated in hydro-power solution (HYPOSO) in Kampala 2022.
- Participated in Renewables against Covid organized by RES4Africa 2020.
- Participated in wind turbine and technology and application training at national institute of Wind Chennai India 2019.
- Trained with EWB on solar PV powered water pumping and irrigation system 2020/2021.
- Participated in a micro-grid academy training on- Design, Operation & Maintenance- by RES4Africa 2018.
- Participated in scientific writing by African Clean Energy Research Alliance, 2017.
- Participated in bioenergy technology training by African Clean Energy Research Alliance 2017.
- Trained as solar PV electric instructor under the HWK-TVET project in Cologne Germany -2017.
- Trained as a solar instructor under HWK-TVET project at Nakawa vocational institute 2016.
- Trained in solar PV testing and laboratory maintenance at Strathmore Energy Research Centre by Fraunhofer team from Germany 2015.
- Participated in tier 1/tier 2 solar technician training at Strathmore Energy Research Centre- 2015.

Year	June-Dec 2013 Employer: SNC Lavalin International Position: Technician (Civil works) Responsibilities <ul style="list-style-type: none"> • Surveying using dumpy level & Total Station. • Material testing in the laboratory (Maximum Dry Density, Concrete Bearing Ratio, Plasticity Index, Aggregate Crushing Value, Optimum Moisture Content, Gradation).
Year	May-Aug 2012 Employer: MBJ Technologies consulting engineers Position: Trainee Responsibilities: Geometric design of Bukerere estate roads, drainage system and reporting.

Education

2021-2023 M.Sc. Renewable Energy Technology - Makerere University (on going)

2015-2019 Bachelors of Engineering in Civil - Ndejje University -with focus on Renewable Energy

2011-2013 National Diploma in Civil Engineering - UTC Bushenyi

2009-2010 Uganda Advance Certificate of Education – Phy, Maths, Econ and Ent, Namiryango SSS

2005-2008 Uganda Certificate of Education - Sts. Peter & Paul Seminary, Arua

Other Skills

Through my studies and various practical field experiences, have become a good communicator, problem solver, dynamic, good listener, teachable, open minded and approachable, confident presenting & can manage transition. Am focused and hardworking with positive energy, enthusiasm & teamwork spirit.

I have gained skills in supervision and coordination of projects, training, design & installations of solar systems of all sizes with further experience in software such as AutoCAD, ArchiCAD, Microsoft packages (word, excel, power point), outlook, office 365, RETScreen, S-Plan, internet, PVSol, PVsyst software.

Referee 1	Referee 2	Referee 3
Dr. Mary Suzan Abbo Managing Director- CREEC msabbo@creec.or.ug +256 775 874 888	Mr. Opio Innocent Miria opiomiria@gmail.com +256 774008057	Dr. Pius Ojara De-Saxone Director Refugee Law Project Makerere University piusojara@gmail.com +2567749051130

I **Masendi Patrick** the undersigned, certify to the best of my knowledge and belief that, this CV correctly describes me, my qualifications and experience.


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Masendi Patrick