

ACADEMIC CURRICULUM VITAE

Godfrey Ssajja Ssali BSc.(Bsc. Mech Eng(Mak). MSc. SEE(KTH), M.U.I.PE, Reng(ERB)

1. Position applied for: Mechanical Engineer
2. Name of Applicant: GODFREY SSAJJA SSALI
3. Date of Birth: 29/03/1983, Nationality: UGANDAN
4. Telephone Number: +256-774126176/0701412676, Email goss@kth.se/ gssajja@gmail.com

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5. Personal Profile:

Godfrey is a University Lecturer and Registered Mechanical Engineer in Uganda; He has been teaching and practicing Engineering for over 13 years, having started out in manufacturing service as a Maintenance Manager and now 12 years in consulting as Mechanical/Energy consultant as well as teaching at the university. He has occupational experience in Teaching and research, Mechanical building services, technical reviews and audits, maintenance system designs and feasibility studies in Business Management, Mechanical and energy system design in different manufacturing setups. I have a profound interest in academia where I teach and research in Renewable/Sustainable energy Engineering, Engineering Management, Operations Research, Maintenance Engineering, Production Technology, Materials science, strength of Materials and computer programming using C++ and Matlab.

Over the years, he has worked on various projects independently and in teams. He presents information clearly and concisely both orally and in writing. He has advanced computer proficiency with forward thinking and ability to learn very fast. He has the ability to communicate with ease and motivate others to achieve the intended objectives. He works with comfort under pressure for long hours to achieve the set objectives.

6. Membership in Professional Societies:

Corporate member, Uganda Institution of Professional Engineers no. PE/1026
Member, Engineering Registration Board, Uganda, No. RE/906
Member, Petroleum Education Network
Executive Member, UIPE Kampala Branch (2016-2020)
Member, Lions club International, Makerere Branch.
Committee member, UIPE Accreditation committee (2016-2020)
Past Chairperson, Busitema University Academic Staff Association (Nov 2017-March 2020)

7. Educational Background

| YEAR | SCHOOL/INSTITUTION | AWARD |
|------|---|---|
| 2017 | Royal Institute of Technology, KTH, Stockholm, Sweden | M.Sc. SEE (Sustainable Energy Engineering) |
| 2012 | Open Petroleum Education Network | Certificate in oil exploration and production |
| 2009 | Makerere University, Kampala | B.Sc. Mechanical Engineering First class honours |
| 2003 | Kithende College School | Uganda Advanced Certificate of Education |
| 2000 | Old Kampala Secondary School | Uganda Certificate of Education |
| 1996 | Shimoni Demonstration School | Primary Leaving Certificate |

8. Research undertaken and papers published

Papers published:

Simulation for control strategies of hybrid wind/ hydrogen systems for smart grid applications in Kampala and Tororo-Uganda, Mackay A. E. Okure, Godfrey Ssajja Ssali and Sad Jarall, Vol 3, Issue 1, 2016, ISSN 2001-2837- Pages 1-47 (<http://www.technoscience.se/ijtd-vol-3-2016/>)

Master Thesis title: 'Energy flow in a Hybrid Wind/ Hydrogen System for Kampala and Tororo towns in Uganda' whose report can be accessed <https://kth.diva-portal.org/smash/get/diva2:1072138/FULLTEXT01.pdf>.

Undergraduate project report: Improvement of product finishes in small-scale industries, a case of Kampala Fabricators.

Workshops, seminars, and conferences attended

1. Solar cells in theory and practice(SCITAP) at the University of Rwanda July 2018
2. International summer school for young scientist from east and southern Africa on renewable energies for Africa: solar energy and its application at NMAIST, Arusha, 13-18 July 2015.
3. 3rd, 4th and 5th entrepreneurs networking workshop by Mara foundation at the Food technology conference hall on the 27th February 2015.
4. Succeed energy audit workshop for universities held on 10-11th march 2015 at the Makerere university library organized by MEMD and sponsored by SUCCEED Network
5. Problem based learning and proposal writing workshop held at CEDAT conference hall on 29th April 2015 sponsored by the College of Engineering Design Art and Technology.
6. Energy efficiency training organized by MEMD AND SPONSORED BY GIZ on the 15th -16th April 2015 at Kabira country club in Kampala
7. Practical energy audit training 20th - 22nd April 2015 at steel rolling mills organized by MEMD and sponsored BY GIZ.
8. Workshop to discuss the IPCC 5th assessment report organized by Makerere university in conjunction with the ministry of water and environment- disseminating the Intergovernmental panel on climate change fifth assessment report at hotel Africana on the 21st to 22nd August 2014.
9. Common mistakes in dissertation writing on the 22nd October 2014 by prof. Giel Van Dyk from the University of Stellenbosch, South Africa
10. Energy Auditing and Energy Management on the 20th may - 12th July 2013 by MEMD- Ministry of Energy and Mineral Development Uganda and GIZ- for the promotion of renewable energy and energy efficiency program.
11. Innovative application of ICTS - bridging the gap between knowledge generation and end users for climate change resilience building in Africa held at CEDAT conference hall in Makerere University on 12th December 2014 organized by Makerere university geographical information systems centre in collaboration with university of Nairobi IDRC-ICTWCC- Project.
12. University-industrial innovations MSc. TIID research dissemination held at Ridar hotel on the 15th to 18th December 2014, organized by the Department of Mechanical Engineering and sponsored by NORAD.

Other Training:

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| 2012 | Certificate in oil exploration and production, open source |
| 2013 | Certificate in Energy Audit with the Ministry of Energy and Mineral Devt. |
| 2015 | OSHA- Certificate. |
| 2016 | Occupation health and safety in developing countries. |

8. Languages:

| | Speaking | Writing | Reading |
|---------|-----------|-----------|-----------|
| English | Excellent | Excellent | Excellent |
| Luganda | Excellent | Excellent | Excellent |
| French | Fair | Fair | Good |
| Swahili | Fair | Fair | Good |

9. Professional Experiences:

| Period | Employer | Position Held/Activities |
|---------------|---|---|
| 2009-To date | Busitema Univ. Busia Campus, Busia | Lecturer <ul style="list-style-type: none"> Teaching and conducting research in Production Engineering, Materials Science, Mechanics/strength of Materials Maintenance Engineering and Process Improvement, Computer programming and Operations Research. supervision of student's project in the above areas |
| 2010-2017 | Makerere University NOMA Scholarship-Dept of Mechanical Eng. Makerere University, Kampala | Asst. program co-ordinator <ul style="list-style-type: none"> Conducting the scholarship selection process Making Budgets for the program Carrying out administrative activities for the program Conducting exam supervision and compiling of Semester marks and any other activities as given by the Program Coordinator. |
| 2008-2009 | Makerere University Technology Development and Transfer Centre, College of Engineering, Design Art and Technology, Kampala | Research Assistant <ul style="list-style-type: none"> Managing the day-to-day activities of the Centre. Design and construction of projects including solar water heaters, display units for advertisements, solid Waste Incinerators for hospitals like Nsambya Hospital and improvement of Mulago Hospital incinerator. Design and construction hybrid dryer (biomass and solar) for pineapples and a Computer Numerically controlled machine |
| 2010 -To date | Various consultancy Companies 1. Technology Consults 2. Adroit International Consults Ltd 3. Elite Consulting Engineers Ltd. 4. Kaika Investco. Ltd | Mechanical/Energy Consultant <ul style="list-style-type: none"> Write project proposals, inception reports and have them presented to clients. Develop specifications & benchmarks for the various assignments given Carry out feasibility studies and Carry out assessments, designs and come up with reports Carry out economic assessments of projects and make reports for presentation Present findings of the assignments to clients. |
| 2008-2009 | Omega Construction Co. Ltd | Graduate Maintenance Manager <ul style="list-style-type: none"> Managing the day-to-day affairs of the maintenance department and making daily reports to management. In-charge of the logistical aspects of the plant making sure that lost time is at minimum In-charge of scheduling the service and maintenance of vehicles and machinery in addition to supervision of technicians |

13. Professional Assignments undertaken as a Mechanical/Energy Engineering consultant

| Assignments/Company/date | Client/date |
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| 1.consultancy services to undertake asset and business valuation of Mpanga growers Tea factory in Kabarole District. | Uganda Development Corporation, March 2022- July 2022 |
| 2.Consultancy services for the Architectural and engineering designs for the Nwoya Fruit Processing Plant for NAADS | National Agricultural Advisory Services-NAADS March 2021 to March 2022. |
| 3.Review of engineering design and drawings for a 40TPH/32.0kg/cm2 Boiler for Bwendero sugar Ltd.- Hoima- Individual | Bwendero Dairy Ltd. Nov- Dec 2021. |
| 4. Basic Engineering design for Tilenga Drilling Support Base- Hoima- MottMackdonald | Total E&P Jan 2021- October 2021 |
| 5.Consultancy services for the architectural and engineering design of National Agro-Processing Institute-Nwoya-MottMackdonald | Ministry of Education and sports June 2020 to June 2021 |
| 6.Consultancy services for Development of Entebbe International Airport Free Zone, at Entebbe- Technology Consults Ltd | Uganda Free Zones Authority (UFZA) June 2019-Feb 2020 |
| 7. Consultancy and Supervision for the construction of the Kiira Motors Company Facility at Jinja District.-Technology Consults Ltd | Kiira Motors Company Ltd. January 2019- Feb 2022 |
| 8. Consultancy service, a study on transportation of Refined Petroleum Products over Lake Victoria, Kaika Investco. Ltd | Ministry of energy and Mineral Development, Uganda, Jan 2018-Sept 2018 |
| 9. Feasibility Study, Proposed sheet Glass plant in Masaka- Adroit Consults International | Uganda Development Corporation, Nov 2017-Jan 2018 |
| 10. consultancy to formulate a comprehensive strategic Plan and road map for the establishment of a training centre of excellence for the power subsector in Uganda | Ministry of energy and Mineral Development, Uganda, June 2017-Dec 2018 |
| 11. Consultancy services for Development of a master plan for the Kampala Fuel Storage Terminal-Technology Consults Ltd | Ministry of energy and Mineral Development, Uganda, December 2016 to Aug 2017 |
| 12. Consultancy services to investigate the requirements for repair/replacement of a passenger lift at Bank of Uganda plot 45, Kampala-Technology Consults Ltd | Bank of Uganda, Aug-oct 2016 |
| 13. Failure assessment study of a sodium silicate heavy furnace oil (HFO) fuelled furnace at AUROMEERA INDUSTRIES (U) Ltd in Jinja-Elite Consults Ltd | APA INSURANCE (U) Ltd. August 2016 |
| 14.Feasibility Study, Business plan for the establishment of Kachung Vocational Skills facility in Lira- Technology Consults Ltd | National Water and sewerage Corporation Jan 2014- Feb 2015 |
| 15. Feasibility and economic assessment for the improvement of community drainage priorities in Kampala capital city (Lubaga division, Kawempe and Makindye)- UB Consulting Engineers | Kampala City Council, Sept 2015 |
| 16. Design Adequacy and integrity assessment for Fuel Trucks Coamings for BRVS for FS Transporters- Elite Consults Ltd | VIVO Energy Uganda, March-june 2015 |
| 17. Feasibility Study for the upgrade OF Nakasongola Strategic Fuel Reserve, MEMD Project- Technology Consults Ltd | Ministry of energy and Mineral Development, Uganda, June 2014 to Dec 2015 |
| 18. Feasibility Study, Business plan for the establishment of Incubation Business for MSMEs | Uganda Investment Authority, March 2013 to sept 2013 |

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| in Namanve at the Kampala Industrial Business Park (KIBP)- Technology Consults Ltd | |
| 19. Century Bottling Company Limited Boiler Failure Assessment- Elite Consulting Engineers | Century Bottling Company Ltd (Coca-Cola Sabco Uganda), Oct 2013- Dec 2013 |
| 20. Wavah Water Ltd, Preliminary Energy Audit- Individual | Wavah Water Ltd Feb-March 2013 |
| 21. Technical Review of Yiol Oil mill Project in Yiol, South Sudan- Adroit Consults International | Ministry of commerce, industry and cooperatives, South Sudan, Lake state April 2011- March 2012 |
| 22. Technical Review and Business plan writing for the 5 produce firms- Individual | MLI- USAID project, Uganda Feb 2011-March 2011 |
| 23. Technical review of Uganda Clays, Kamonkoli, Mbale- Technology Consults Ltd. | Uganda Clays Ltd, Kamonkoli, |

14. References

Dr. Eng. Daniel Otim

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Busitema University
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Prof. J.B Kirabira

Chair, Department of Mechanical Engineering,
Makerere University
P.O BOX 7062, KAMPALA, UGANDA
EMAIL: kirabirajb@gmail.com
PHONE: +256-772-422738

15. Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes my qualifications, my experience and myself. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature:

Name of authorized representative:

Godfrey Ssajja Ssali

Date: July 14, 2022