

CURRICULUM VITAE (CV)

Name	Daniel Otim
Date of Birth	8 th February 1982
Country of Citizenship/Residence	Uganda/ Uganda
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Education:

Name of Institution	Date Attended	Degree/Diploma Obtained
University of KwaZulu-Natal (Pietermaritzburg Campus)– South Africa	June 2016 to November 2019	PhD (Agricultural Engineering)
University of Florence- Italy	2008	MSc Irrigation Engineering
Makerere University- Uganda	2002 - 2006	BSc (Hons) Civil Engineering

Specialised Training:

Specifics of the Training	Institution Organising the Training	Date Conducted
Msunduzi Presentation - Sewer Storm Water Infiltration Monitoring	South African Institution of Civil Engineers (SAICE)	July 2018
AutoCAD Civil 3D Design and Modelling Workshop	Uganda Association of Consulting Engineers	3 rd – 4 th December 2015
FIDIC Contracts Training Course- Kampala Uganda	Uganda Association of Consulting Engineers	2 nd – 3 rd October 2014
Basic GIS Training- Entebbe Uganda	Ministry of Agriculture, Animal Industry and Fisheries in conjunction with JICA	23 rd – 24 September 2014
National Consultants' Training Forum in Hydrology and Urban Drainage- Kampala Uganda	Uganda Association of Consulting Engineers conjunction with Uganda Institution of Professional Engineers	5 th – 6 th December 2013
Rainbird Landscape Irrigation Training Course- Kampala Uganda	Multiple Industries Limited	26 th May, 2012

Daniel Otim is a Senior Lecturer and the Dean Faculty of Engineering in Busitema University with specific expertise in soil and water conservation engineering, water resources engineering, hydrology and drainage engineering. Daniel is professionally registered with the Engineers Registration Board of

Uganda. He has a PhD (Agricultural Engineering) from University of KwaZulu-Natal, South Africa, MSc Engineering degree in Irrigation Engineering from University of Florence, Italy and a BSc Engineering degree in Civil Engineering which he obtained from Makerere University, Uganda. He has designed and managed a multitude of civil engineering projects and he lectures courses in soil and water engineering, applied hydrology and irrigation system design and management in Busitema University.

Computer Skills:

Competence in use of MS Office packages, MS Project, Auto CAD, Civil 3D Auto CAD, EPANET, LOTUS, LOOP, HEC- RAS, HEC- GEORAS, ARCMAP, ACRU, HYDROCALC- HYDRAULICS, HY-8 and Hydraulic Tool Box.

Employment Record Relevant to the Assignment:

Period	Employing organization and your title/ position. Contact info for references.	Country	Summary of activities performed relevant to the assignment
May 2009 - Ongoing	<p>Employer: Busitema University</p> <p>Position held: Senior Lecturer and Dean, Faculty of Engineering and Technology</p> <p>Referee: Prof Samuel Baker Kucel Deputy Vice Chancellor- Academics, Busitema University P.O Box 236, Tororo Uganda Tel: +256 772302157 Fax: +256 454448838 Email: sbkucel@gmail.com</p>		<p>Activities:</p> <ul style="list-style-type: none"> • Providing academic and administrative oversight to the Faculty of Engineering and Technology, • Teaching Courses in Hydraulics, Hydrology, Soil and Water Engineering, Irrigation and Drainage System Design and Management, and Irrigation Agronomy at undergraduate level and Agronomy and Water Management Systems, and Flood Mitigation and Management at Postgraduate level, • Community outreach in the area of Water Smart Agriculture, • Research in the areas of soil and water conservation engineering, water resources engineering, hydrology and drainage engineering,
July 2006 – May 2009	<p>Employer: Warner Consultants Limited</p> <p>Position held: Civil Engineer</p> <p>Referee: Eng. Dr. Charles Wana-Etyem Managing Director Warner Consultants Ltd, P.O Box 16225, Kampala Uganda Tel: +256 414267071 Mob: +256 772746952</p>	Uganda	<p>Activities:</p> <ul style="list-style-type: none"> • Coordination of teams during data collection • Surveying • Sampling water for testing in the laboratory • Design of water supply schemes and sanitation facilities and documentation • Preparing BOQs • Oversight of works • Preparation of daily, weekly and monthly progress reports

Period	Employing organization and your title/ position. Contact info for references.	Country	Summary of activities performed relevant to the assignment
	Email: info@warnercons.com wana.etyem@warnercons.com		for submission to the client <ul style="list-style-type: none"> Monitoring quality of works Verification of measurement sheets Preparing minutes for meetings held

Membership in Professional Associations and Publications:

Professional Association	Type of Membership	Date Admitted
Uganda Engineer's Registration Board	Registered Engineer (ERB No. 807)	2 nd March 2016
Uganda Institution of Professional Engineers (UIPE)	Corporate (PE/ 928)	8 th December 2015

Publications and Conferences:

- Omara, J., Talavera Martinez, E., **Otim, D.**, Turcza, D., Ofumbi, E., & Owomugisha, G. (2023). A Field-based Recommender System for Crop Disease Detection Using Machine Learning. *Frontiers in Artificial Intelligence*, 6, 57. <https://doi.org/10.3389/frai.2023.1010804>
- Mafukidze, H. D., Owomugisha, G., **Otim, D.**, Nechibvute, A., Nyamhere, C., & Mazunga, F. (2022). Adaptive Thresholding of CNN Features for Maize Leaf Disease Classification and Severity Estimation. *Applied Sciences*, 12 (17), 8412. <https://doi.org/10.3390/app12178412>
- **Otim, D.**, Smithers, J., Senzanje, A., van Antwerpen, R., & Thornton-Dibb, S. L. (2021). Development and assessment of an updated tool for the design of soil and water conservation structures in the sugar industry of South Africa. *Agricultural Engineering International: CIGR Journal*, 23(4).
- **Otim, D.**, Smithers, J., Senzanje, A. and van Antwerpen, R., 2020a. Investigation of System Design Criteria and the Capital Cost of Varying Design Return Periods for Soil and Water Conservation Structures. *Applied Engineering in Agriculture* 36 (4): 511-523. <https://doi.org/10.13031/aea.13714>
- **Otim, D.**, Smithers, J., Senzanje, A and Van Antwerpen, R.2020b. Verification of runoff volume, peak discharge and sediment yield simulated using the ACRU model for bare fallow and sugarcane fields. *Water SA* 46 (2): 182-196. <https://doi.org/10.17159/wsa/2020.v46.i2.8233>
- **Otim, D.**, Smithers, J., Senzanje, A and Van Antwerpen, R. 2019a. Assessment of trends in run-off and sediment yield from catchments under sugarcane production and management practices*. *International Sugar Journal* 121 (1443): 216-219.
- **Otim, D.**, Smithers, J., Senzanje, A and Van Antwerpen, R. 2019b. Design norms for soil and water conservation structures in the sugar industry of South Africa. *Water SA* 45 (1): 29-40. <https://doi.org/10.4314/wsa.v45i1.04>
- **Otim, D.**, Smithers, JC, Senzanje, A and Van Antwerpen, R.2019c. Verification of runoff volume, peak discharge and sediment yield simulated using the ACRU model for bare fallow and sugarcane fields. *Proceedings of South Africa Sugar Technologists' Association*, (92) 77-81. SASTA, Durban, RSA.
- **Otim, D.**, Smithers, JC, Senzanje, A and Van Antwerpen, R. 2018a. Assessment of trends in rainfall and runoff at the La Mercy catchments under bare fallow conditions and sugarcane production. In: eds. Akdeniz, RC and Yaldiz, O, *CIGR 2018 XIX. World Congress of CIGR Program and Abstracts' Book*, 201. CIGR, Antalya, Turkey.
- **Otim, D.**, Smithers, JC, Senzanje, A and Van Antwerpen, R.2018b. Assessment of trends in runoff and sediment yield from catchments under sugarcane production and management practices. *Proceedings of South Africa Sugar Technologists' Association*, 98-102. SASTA, Durban, RSA.
- **Otim, D.**, Smithers, JC, Senzanje, A and Van Antwerpen, R.2018c. Assessment of trends in runoff, peak discharge and sediment yield from catchments under sugarcane production and management practices.

South African Institute of Agricultural Engineers (SAIAE) Symposium and Biennial CPD Event.
Durban North, South Africa. 17 – 20, September 2018.

- **Otim, D**, Smithers, JC, Senzanje, A and van Antwerpen, R. 2018d. Verification of runoff volume and peak discharge from sugarcane fields simulated using the *ACRU* model. In: eds. Akdeniz, R and Yaldiz, O, *CIGR 2018 XIX. World Congress of CIGR Program and Abstracts' Book*, 46. CIGR, Antalya, Turkey.

Language Skills (indicate only languages in which you can work):

Language	Reading	Writing	Understanding
English	Excellent	Excellent	Excellent
Luo	Excellent	Excellent	Excellent
Luganda	Excellent	Excellent	Excellent

Certification:

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

Eng. Dr. Otim Daniel

27/04/2023

Name of Expert

Signature

Date