

PETER BUKENYA

8601 Lincoln Blvd, Los Angeles, CA 90045

buke.peter@gmail.com

+1-310-339-0109/+256705735514

EDUCATION:**Loyola Marymount University***Master's Degree in Computer and Information Science***Uganda Management Institute***Post Graduate Diploma in Project Planning and Management***Ndejje University***Bachelor's Degree in Civil Engineering***Los Angeles, CA USA**

May 2025

Kampala, Uganda

May 2019

Kampala, UgandaOctober 2013

INDUSTRY EXPERIENCE:**Position:** Data Science Intern with Centerfield Media Holdings Company, Los Angeles, California, 3 months.

- Played a supportive role in assisting with data preparation by collecting, cleaning, and organizing data, and performing exploratory data analysis and statistical tests (Bayesian A/B testing).
- Developed and evaluated machine learning models and created reports and visualizations to present insights.
- Collaborated with team members on various projects, stay updated with industry trends, and document findings.

Position: Teaching Assistant for Mechanical Department, Loyola Marymount University, for 4 months.

- Graded and prepared students' study materials for the Professor.

Project: Consultancy Services for Design Review & Construction Supervision of Busega-Mpigi Expressway (23.7 km) (\$148,748,457).**Position:** Assistant Engineer with Dohwa Engineering Co., Ltd/IDCG Engineering Group/TB3 Global Limited in Central Uganda for Government of Uganda, for 2.5 years.

- Coordinated and overseed the project's daily activities for the Consultant on behalf of the Employer & related stakeholders including managing project associated subcontracts.
- Reviewed cost estimates, project schedules and bill of quantities to ensure correctness & accuracy in compliance with State of Requirements monthly.
- Controlled, managed and administered the project resources as per the Contract Conditions daily.
- Prepared monthly, quarterly progress reports, Invoices, and interim payment certificates in relation to the project Contract Conditions with Assistant Resident/Measurement Engineer.
- Handled project claims in relations to International Standards like International Federation of Consulting Engineers monthly.
- Coordinated the Consultant's team on various project deliverables daily.

Project: Consultancy Services for Design Review & Construction Supervision of Busega-Mpigi Expressway (23.7 km) (\$148,748,457).**Position:** Assistant Highway Engineer with Dohwa Engineering Co., Ltd/IDCG Engineering Group/TB3 Global Limited in Central Uganda for Government of Uganda, for 9 months.

- Assisting the Highway in reviewing and updating the detailed designs to secure affordable quality for the expressway construction for the design stage.

Project: Consultancy Service project of Engineering Design of PRELNOR roads in Lamwo, Kitgum, Pader, Omoro and Agago districts (405km) (\$ 147,455) for Government of Uganda.**Position:** Field Team Leader/Assistant Materials Engineer with TB3 Global Limited, for 9 months.

- Carried out detailed engineering design and documentation of the selected community access roads for rehabilitation and construction to the climate resilient standards including all ancillary structures and to the approval of the Ministry of Works & Transport of Uganda.

Project: Consultancy Services for Design Review of Atiak-Laropi road Upgrading project (66km) (Euros 45,000).**Position:** Senior Civil Engineer/Assistant Materials Engineer for roads design with ARS Progetti SPA/TB3 Global Ltd in Northern Uganda for Government of Uganda, for 6 months.

- Designed, and reviewed detailed designs including carrying out of Value Engineering with a team of 5.
- Investigated the profiling of the alignment and the design subgrade and examined laboratory results for incorporation in the Detailed Design Report together with Geotechnical/Materials Engineer.

Project: Consultancy Service for the Identification, Feasibility Study and Preliminary Design for the Rehabilitation of District and Community Access Roads in Abim, Amudat, Adjumani & Moyo [400km]. (Euros 2,000,000).**Position:** Senior Civil Engineer with Project Planning & Management Ltd/TB3 Global Ltd in Northern Uganda for Government of Uganda, for 9 months.

- Carried out Geotechnical Investigations and material testing and interpretation of the results with assistance from a team of 5.
- Monitored traffic count and analysis with a team of 2 Highway Design Engineers.
- Created strip maps of 400 km roads for Abim, Amudat, Adjumani and Moyo districts for Team Leader Design Review.
- Undertook pavement design and generation of Bills of Quantities (BoQs) of 400 km roads.

Project: Consultancy services for Road condition survey and mapping of District, Urban and Community Access Roads (DUCAR) in Uganda (\$3,319,200).**Position:** Graduate Engineer & GIS Supervisor with Tamp Blessed 3MS Jv. Ltd Engineering Consultants for Government of Uganda, for 1.5 years.

- Engaged in Data Collection and Management by verifying and rectifying identified errors for future referencing for the country road networks.

- Gathered, examined, and integrated spatial data and determined how best the information can be visualized using GIS.
- Engaged in preparing Daily, Weekly, Monthly, Quarterly, and Annual progress reports.

ADDITIONAL EXPERIENCE IN COMPUTER SCIENCE:

- Developed a Shopping Cart web app in python, 2024.
- Studied the New York Coffee Shop Sales deploying Exploratory Data Analysis and Machine Learning, 2024.
- Designed and implemented Banking app web application operating python and Flask, 2024.
- Evaluated Alternative Fuels station by US Department of Energy - Energy efficiency and Renewable Energy, 2024.
- Evaluated Electric Vehicle Population by Exploratory Data Analysis and Prediction, 2024.
- Reviewed California Traffic Volumes Analysis and Prediction of the impact in python, 2024.
- Partnered in development of Recursive fractal package and Julia sets module in python and tkinter, 2023.
- Assessed Netflix Software System Architecture, 2023 with a team of 3.

MSc Courses attended: Machine Learning, Database Systems, Cybersecurity, Data Science, Software Architecture, Secure Software Design, Computability & Complexity, Programming Language Foundations, Portfolio Strategy & Management, Computer Programming, Data Structures, Computer Systems Organization.

TECHNICAL SKILLS:

Programming Languages: Python, Java, C, Ocaml.

Frameworks: Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, Plotly, NetworkX, Mapbox, Osmnx, Flask, Geojson, Keepa KPI, Geopandas, holoviews, Google Earth, Base camp Map source.

Tools: Microsoft Office, Tableau, GA4, GCP, Git, ArcGIS, AutoCivil3D, Geoslope, CSC-Tedds.

Platforms/IDEs: Jupyter Notebook, Visual Studio Code.

Soft Skills: Project management, Contract Admin & Management, Management Information skills, Geospatial Data science.

CERTIFICATIONS/TRAININGS:

- Construction Claims Basic E-Course by Hewitt Construction Consultancy/ Construction Claims Class, Dubai, UAE, for 3 months.
- Managing Project Risks and Changes by University of California, Irvine, USA, August 2020.
- Construction Cost Estimating and Cost Control by Columbia University, New York, USA, November 2019.
- Economics, and International Business by International Business Management Institute (IBMI)-Berlin Germany, October 2018.
- Continuous Professional Development in Contract Management for Engineers, and Other Infrastructure Professionals by Uganda Institute of Professional Engineers (UIPE), October 2018.
- Continuous Professional Development in Technical Report Writing by Uganda Institute of Professional Engineers, June 2018.
- Business Strategy and Operations, International Business Management Institute (IBMI)-Berlin Germany, October 2018.
- Continuous Professional Development in Advanced Project Management with MS Project by Uganda Institute of Professional Engineers (UIPE), March 2018.
- Continuous Professional Development in Slope Stability and Lateral Earth Supports by University of Cape Town South Africa, July 2017.
- Continuous Professional Development in Foundation design in Geotechnical Engineering by University of Cape Town South Africa, June, 2016.
- AutoCAD Civil 3D Design & Modelling Training by Autodesk /Uganda Association of Consulting Engineers, January 2016.
- Participation in Road Condition Survey, Mapping & Database Development of District, Urban and Community Access Roads (DUCAR) Project leveraging Geographical Information System (GIS) by Tamp Blessed-3MS Jv. Ltd / Ministry of Works & Transport (MoWT), for 1.5 years.
- Continuous Professional Development in Laboratory and Field Techniques in Geotechnical Engineering by University of Cape Town South Africa, July 2015.
- Training of Trainers (TOT) in Geographical Information System (GIS) by Ministry of Works and Transport and Tamp Blessed-3MS Jv. Ltd, for 3 months.

MEMBERSHIP:

- Graduate Engineer with Uganda Institute of Professional Engineers, GM-1391.
- Former Council Member of Uganda Association of Consulting Engineers, an affiliate to the International Federation of Consulting Engineers for 2 years.

LANGUAGES: English (Fluent), French (Basic) and Luganda (Mother Tongue).

LinkedIn Profile: <https://www.linkedin.com/in/peterbukunya/>