

# SSENGENDO AUSTIN

**Physical Address:** Kampala, Uganda **Nationality:** Ugandan **Phone:** +256-778-243-135

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## PROFILE

Recent graduate in Civil and Environmental Engineering with practical experience in technical assessments, water quality monitoring and evaluation, engineering drawing, structural design, site supervision, and project management. Familiar with industry software such as QGIS, Google Earth, HEC-HMS, HY-8, AutoCAD, AutoCAD, Civil 3D and Prokon. Passionate about integrating nature-based solutions into engineering practices to enhance environmental conservation, promote climate resilience, and support ecosystem restoration.

## EDUCATION

**Makerere University, Kampala, Uganda**

**Jan 2022 – present**

**Bachelor of Science in Civil and Environmental Engineering**

- National Merit Government Scholarship
- Equity Leaders Program (ELP) Scholar
- Leadership roles: President, Legion of Mary; Member of the Central Executive Committee, St. Augustine Chaplaincy, Makerere.

**Bishop Cipriano Kihangire SSS Bbiina, Kampala, Uganda**

**Feb 2015-2021**

**Uganda Advanced Certificate of Education (UACE) & Uganda Certificate of Education (UCE)**

- Best student UACE 2021
- Roles: Class group leader; Member, Legion of Mary; Member, Good Samaritan Club

## PROFESSIONAL EXPERIENCE

**Ministry of Local Government -Kampala, Uganda**

**May 2024-Aug 2024**

***Intern – Project Support Team***

- Participated in the design and evaluation of road drainage systems
- Conducted hydrological analysis and hydrological modelling using tools such as ArcGIS, QGIS, and HEC-HMS
- Contributed to the pre-qualification evaluation process for the RUDSEC project
- Assisted in preparing Bills of Quantities for road infrastructure and drainage works

**ICS Engineering and Environment- Kampala, Uganda**

**May 2023-Aug 2023**

**Intern - Kampala Flyover and Road Upgrading Project**

- Assisted in the inspection and supervision of road works
- Performed laboratory and field tests on construction materials
- Gained exposure to structural design and detailing
- Practised occupational safety and health measures on-site
- Collaborated with multidisciplinary teams including engineers, surveyors, architects, and contractors

**Intern – Equity Bank Katwe Branch**

- Supported front desk staff in account services and customer queries, increasing efficiency by about 50%
- Processed customer information and assisted with transaction documentation
- Assisted with transaction processing (e.g., deposits, withdrawals, transfers)
- Supported marketing campaigns, which resulted in a 10% increase in the number of new accounts opened daily
- Assisted users with digital onboarding (Equity mobile apps)
- Participated in daily team briefings, gaining exposure to credit, operations, and marketing strategies

## RESEARCH PROJECT

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**Title: Quantifying the effects of Lubigi wetland restoration on water quality improvement and flood reduction.**

As part of my final year at Makerere University, I am conducting a research project on Lubigi Wetland, a critical urban wetland in Kampala that has undergone severe degradation. The study examines the wetland's role in flood control, water purification, and urban resilience, while assessing the threats posed by encroachment.

- Conducted community interviews to gather local perspectives on the use, management, and degradation of Lubigi Wetland.
- Carried out water quality testing for selected parameters at 4 sites
- Performed hydrologic modelling of the wetland system
- Evaluated the effects of restoration/degradation on water quality and flood resilience

## AWARDS AND HONORS

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- Best Student UACE 2021
- National Merit Government Scholarship
- Equity Leaders Program Scholar

## PERSONAL INTERESTS

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- Hiking
- Traveling
- Science Communication and writing
- Nature

## ADDITIONAL INFORMATION

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**Languages:** English (Fluent) and Luganda (Fluent)

**Technical Skills:** Water quality monitoring and evaluation, Hydrologic and Hydraulic Modelling, Data analysis

**IT Skills:** Python programming (Intermediate), Microsoft Office (Word, PowerPoint, Excel), Google Colab (for collaborative coding and data analysis)

**Software Skills:** ArcGIS, QGIS, Google Earth, HEC-HMS, HY-8, AutoCAD, Civil 3D, Prokon