

Veronica Wambura

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EDUCATION

New York University Abu Dhabi, (September 2017– May 2021)

Abu Dhabi, UAE

Bachelor of Science in Civil Engineering

International Study: New York, NY; Shanghai, China; Ajloun, Jordan; Mumbai, India; Lusaka, Zambia

Relevant Coursework: Project Management; Building Information Modelling; Sustainable Transportation and Cities; Environmental Engineering; Structural Steel Design; Reinforced Concrete Design.

WORK EXPERIENCE

Geospatial Data Services, Student Assistant (February 2021 – Present)

Abu Dhabi, UAE

- Identifies and downloads geospatial data from sources such as the Abu Dhabi Department of Municipalities and Transport and the Abu Dhabi Environment Agency using a text editor (Atom) and QGIS.
- Works collaboratively with the NYUAD librarian to create and organize an inventory list of datasets from the identified sources using Google Sheets.

Department of Design and Construction, Research Fellow (June 2020 –September 2020)

New York, NY

- Worked on DDC's project to improve accessibility by adding elevators to subway stations in New York.
- Utilized AutoCAD to design a preliminary elevator design that would be compliant with the American Disabilities Act policies.
- Created a report outlining the supply chain, schedule, and standard of quality to which the proposed elevators would be built.

ASCE Bridge Competition, Fabrication Assistant (January 2020 – May 2020)

New York, NY

- Worked with the NYU team to design and build a steel bridge that could hold at least 2000 pounds of load with minimum deflection.
- Assisted with the fabrication of metals to be used in building the bridge. This involved using tools such as angle grinders, band saws and drill drivers to accomplish respective tasks.

NYU Abu Dhabi - Knowledge Translation Project, Student Researcher (January 2020)

Lusaka, Zambia

- Performed community visits to key organizations in Zambia such as government ministries, schools for students with disabilities and disability advocacy organizations.
- Created a policy brief detailing the importance of mandatory teacher training on inclusive education and child protection policies in schools in Zambia.

NYUAD Materials Engineering Lab, Research Assistant (May 2019 – August 2019)

Abu Dhabi, UAE

- Collaborated with NYUAD professors and PhD students to design cement paste mixtures suitable for Concrete 3D Printing, a new, quick and cost-efficient way of building houses.
- Performed experiments on the hydration and shrinkage properties of the proposed cement mixtures.
- Collected and recorded experimental data into MS Excel, modeled results and generated reports.

Urbz Mumbai, Design Volunteer (March 2019-May 2019)

Mumbai, India

- Introduced solar energy to some of the residents of Koliwada, a community of fishermen in Dharavi.
- Installed a solar panel connecting 6 light bulbs to a public toilet block in Dharavi that continues to be used by the local community.

COMMUNITY INVOLVEMENT

WeSTEM (Women in STEM) NYUAD, Co-facilitator (February 2018)

Abu Dhabi, UAE

- Assisted in the implementation of a coding workshop for high school girls between the ages of 13 and 17.
- Supervised participants in creating a Ping Pong game on their phones using Processing language.

Habitat for Humanity, Project Volunteer (March 2018)

Ajloun, Jordan

- Worked with a team of 14 students to construct new houses for 2 under-privileged families in Ajloun.
- Employed Green Building techniques such as thermal cladding for energy conservation.

SKILLS

Software: AutoCAD, Revit, Aimsun, Navisworks, MS Office (Word, Excel, PowerPoint, Project), Google Suite.

Languages: Swahili (Native), English (Native Fluency), French (Basic)