



Alemayehu Dula Shanko, Eng.

Florida International University and the University of Florence

Ethiopia

Alemayehu Dula Shanko is a water resource engineer and researcher currently pursuing dual PhD studies at Florida International University and the University of Florence. With extensive experience in hydrology and hydraulic modeling, Alemayehu has served as a Team Leader at the Ethiopian Construction Works Corporation, where he led critical projects in water allocation and dam safety. His expertise spans reservoir simulation, dam break analysis, and hydrological forecasting. As a lecturer at Hawassa University, he has contributed to academic development by teaching water resources, hydraulics, and irrigation engineering while supervising numerous student projects.

His PhD study focuses on developing flood resilience models by integrating hydraulic modeling and socioeconomic models. The study applies system thinking and modeling approaches to study the dynamic change of resilience under the threat of climate change. His work has been published in peer-reviewed journals, including his research on urban wastewater treatment in African countries. His academic foundation includes a Master's degree in Water Resource Engineering from Lund University and a Master's in Project Management from Addis Ababa University, building upon his Bachelor's in Civil Engineering.