Rezar Lleshi

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ABOUT ME

PhD student at UNIBO (Universita di Bologna) with a keen interest in the field of hydropower and renewable energy, specializing in sediment transport and deposition modeling in hydropower plants under different climate change scenarios.  
Previous experience in construction and sediment modelling in reservoirs.

I am a fast learner, with excellent communication and teamwork skills. I work well under pressure and am committed to effective problem-solving.

# EDUCATION

**Norwegian University of Science and Technology** Aug. 2022 – Aug. 2024

*MSc., Hydropower Development Trondheim, Norway*

Engineering and research focus, using digital twins and Basic Information Modelling (BIM). Academic focus on Dam Design, Hydrological Modelling, Prefeasibility Studies, and Mechanical Design of Turbines. Complemented with a course in Power Markets, extending my knowledge of the energy market.

**Epoka University** Oct. 2019 – Jul. 2022

*Bachelor’s Degree, Civil Engineering Tirana, Albania*

Covering the fundamental topics in various Civil Engineering disciplines. Subjects range from Reinforced Concrete, Steel Design, Structural Analysis, Engineering Economics, Construction Engineering and Management.

# PROFESSIONAL EXPERIENCE

**Statkraft** Apr. 2024 – Aug. 2024

*Intern Trondheim, Norway*

In this role, I am supporting and contributing to R&D sediment studies in the Devoll catchment in Albania, which is also part of my Master thesis. The work consists of field work, laboratory work and technical analyses, specifically:

* Processed water and bed samples using LISST instrument and sieving machine.
* Generated Particle Size Distribution curves from post-processed data, providing a clearer picture of the sediment composition.
* Developing sediment transport model in HEC-RAS for the area of interest using the collected samples as input.
* Applying various climate change scenarios to assess their impact on sediment deposition in the next 100 years.

**Kontakt.AL** Aug. 2021 – Oct. 2021

*Intern Tirana, Albania*

In this role, I contributed to the civil works phase of the construction project by:

* Preparing ad-hoc calculations, drawings, specifications, and quantity and cost estimates.
* Providing input to the research, development, and design of the project.
* Inspecting daily site work and reporting weekly on progress.
* Documenting the progress of ongoing projects.
* Maintaining filing of documentation and reference materials.

# LANGUAGES, SKILLS & OTHER ACTIVITIES

**Languages:** English – Native; Albanian – Native; Norwegian – B1

**Digital Skills:** AutoCAD; Civil 3D; Python; Excel; QGIS; ArcGIS Pro; HEC-RAS; WEAP; Hy-8; Geostudio **Other Skills:** Data Manipulation; Cost Estimation; Documentation; Prefeasibility Analysis; Problem Solving **Volunteering:** Øyafestivalen 2023 – Bartender

# PROJECTS

**Hydropower Prefeasibility Studies -** An in-depth group project for the subject of Prefeasibility Studies, with the task of identifying profitable and feasible sites in the Kvikne region for development of hydropower. The main areas of focus were preliminary hydrological analysis, comparison of cost estimations, long-term financial analysis, production capacities and optimization of the power plants components.