

Carolina Maria Tornesi Mackinnon

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PROFESSIONAL PROFILE

I have been passionate about making a positive impact in the water arena since I began pursuing my undergraduate degree in Chemical Engineering. I enjoy addressing and solving complex issues in water using a creative multi-stakeholder approach to create and deliver an action-oriented strategy. I have been able to leverage my career to facilitate opportunities that allow me to hone my skills in analytics, water advocacy and stewardship, and emerging water technologies. Through my volunteer role I have developed a diverse network of water experts and advocates from across the globe varying from government, NGO, CSO, academic, and other types of organizations.

Some of my most significant achievements include:

- Hosted virtual Cityzens Giving event in collaboration with Manchester City FC.
- Developed methodology for market evaluation of specific water treatment products.
- Member on the International Advisory Committee (IAC) for the Dushanbe Water Process 2022.
- Awarded World Youth Forum Honoree award at the World Youth Forum in Egypt in 2022.
- A speaker and youth advocate at multiple high-level events including Bonn Water Dialogues, Dushanbe Water Process High-level International Conference, World Water Forum, World Water Week, and more.
- Completed the Camino de Santiago from Saint-Jean-Pied-de-Port, France to Finisterre, Spain (900 km in 33 days)

I have provided value by:

- Being comfortable dealing with ambiguity during problem-solving.
- Being self-motivated and able to work well on international teams.
- Fostering a collaborative team environment.
- Influencing without authority.
- Working passionately in pursuit of SDG6.

KEY COMPETENCIES

Leadership	Microsoft Office	Ethics
Critical Thinking	Complex Problem Solving	Developing Relationships
Data Analytics	Communication	Advocacy

PROFESSIONAL EXPERIENCE

Brown and Caldwell
Sr. Business Analyst

San Francisco, California
March 2023 – Present

- Working on the Sites Reservoir project, specifically on project controls.
- This interjurisdictional consortium of multiple public entities is constructing a \$5 billion, 1.5 million ac-ft, off-stream reservoir. Responsibilities focus on organizational analysis, selection and implementation of business systems, eliciting and documenting requirements, writing requests for proposals and vendor selection criteria, and representing the owner during contract negotiations and implementation.

World Water Day

Co-chair of World Water Day 2023

Remote

July 2022 – Present

- Co-chairing the campaign for 2023's World Water Day with UNESCO, WHO, UN Water, and Aquafed. The theme is "Accelerating Change through Partnerships and Cooperation".

Xylem

Senior Product Management Analyst - Treatment

Remote – New York
July 2021 – March 2023

- Manipulating data in order to solve important unanswered questions regarding product portfolio analysis.
- Project managing an all-treatment training plan to create and execute relevant and much needed internal training on all treatment products from the four international Xylem brands in 2022-2023.
- Monitoring and determining key financial and market metrics for over \$400M in globally sold products in order to help create long term and short-term strategic product roadmaps and provide useful market/product reports.
- Collaborating with global product managers on Product Development initiatives, including gathering and synthesizing the Voice of Customer and building business cases to drive initiatives.
- Driving key global product management initiatives such as: global market analysis, managing sustainability metrics and reporting, and financial analysis for internal and external use.

World Youth Parliament for Water

President

Global
March 2021 – Present

- Leading WYPW, a global youth network of 1000+ water activists, by creating and implementing a 3-year strategic plan to amplify youth voices, organize networking events for members, and create positive change in the water arena.
- Actively managing and seeking out new partnerships to expand the reach and increase the impact of the organization.
- Supporting projects and initiatives at the grassroots level as well as actively participating in and advocating for increased youth involvement in global forums and discussions.
- Managing and synthesizing the "youth voice" in order to accurately represent it at all leadership events.
- Working closely with the Kingdom of the Netherlands, Tajikistan, UN Water, and other key stakeholders for the UN Water Conference in 2023 to ensure there is a clear youth message and ask for our global representatives.

Xylem

Global Branding & Partnerships Strategy Analyst, Engineering Leadership Development Program (ELDP) Rotation 3

Remote
October 2020 – July 2021

- Lead and assisted in global branding and partnership initiatives with specific focus on youth involvement in line with Xylem's mantra of solving water.
- Created and directed engaging events aimed to elevate the conversation and action-oriented approach on global water issues through Xylem's purpose driven partnerships with Manchester City FC, Manchester City Women's FC, New York City FC, and Mumbai City FC.
- Brand management and strategy analyst supporting continuous brand development leveraging iterative approaches to a complex and fast changing water sector.

Xylem

Project Manager, ELDP Rotation 2

Weilheim Germany – Remote due to Covid
March 2020 – October 2020

- Collaborated with diverse teams within Xylem to create a customer-facing online selection tool to improve customer knowledge about WTW products and their experiences implementing them.
- Researched and identified areas of growth and focus for Xylem in the drinking water industry for various countries.
- Authored marketing content to support deployment of WTW brand landing page.

Xylem

Project Engineer, ELDP Rotation 1

Morton Grove, Illinois
July 2019 – March 2020

- Collected, analyzed, and reviewed multiple pump family's part drawings, assembly drawings, and material specifications for NSF-61 certification.
- Conducted inter-departmental and international communication to acquire material certifications from suppliers.
- Developed a user-friendly, repeatable method for all NSF-61 certifications of future products.

Water Supply in Developing Countries

Student Leader

West Lafayette, Indiana and Dominican Republic
January 2019 – May 2019

- Collaborated with undergraduate and graduate students of a variety of disciplines to brainstorm and create a feasible solution to provide clean and safe drinking water to impoverished communities in the Dominican Republic.
- Facilitated communication through English to Spanish translation and vice versa between town and school leaders with the Purdue engineering team.
- Built a new water purifying system in an elementary school in the Dominican Republic and provided needed upkeep for previous installations in other schools.
- Co-authored and edited WASH teaching materials for teachers in these schools.

Purdue University

Research Assistant – Chemical Engineering

West Lafayette, Indiana
August 2018 – May 2019

- Acquired knowledge of engineering discipline (photo-chemical reactions) and applied academic knowledge toward data analysis and interpretation.
- Analyzed scientific data regarding photo-chemical reactions in support of academic publication (book).

Morton Salt

Chemical Engineering Intern

Glendale, Arizona
May 2017 – August 2017

- Built, planned, and conducted field experiments through a DOE approach, applying fundamentals of salt crystallization in a solar manufacturing environment.
- Problem solved of prototype test ponds to ensure consistency and reproducibility of data.
- Led the analysis of data, problem solving and applied it to the simulation model.
- Oversaw projects within the manufacturing plant from salt harvesting, process controls of manufacturing process and packaging of final products to distribution network.

EDUCATION

Bachelors in chemical engineering

- Purdue University

West Lafayette, Indiana

LINGUISTIC ABILITIES

English (Native) Spanish (Native)