

Violeta Egan

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Professional Experience

Eswatini Ministry of Economic Planning and Development; Engineers In Action

Kingdom of Eswatini

Project Manager

January-August 2025

- Led the design and implementation of a solar powered water distribution system for 300 primary school students
- Facilitated collaboration and mentorship between professional engineers and 12 students from two different universities
- Connected and managed a team of 20 students and local staff to construct a 600 meter distribution system for over 8 weeks onsite
- Forged cross-cultural relationships between local community members and the student team

Construction Manager

January-July 2024

- Directed the construction of the pilot WASH project for a team of students and local Swazi people for 6 weeks
- Serviced 200 primary school students and staff with a 300 meter solar powered water distribution system
- Created gantt chart and Bill of Quantities using MS Excel that was implemented with a daily work plan onsite each day

Cornell Fitness Centers

Cornell University

Student Worker

September 2025-present

- Assist in tasks to clean, organize, and maintain smooth operations of fitness centers
- Ensure the safety of fitness centers across campus by being First Aid and CPR certified

Cornell Dining: Catering and Concessions

Cornell University

Student Worker

April 2024-October 2024

- Managed food preparation, presentation, and post-event cleanup for professional catering events and concessions

Leadership Experience

Engineers in Action Project Team

Cornell University

Assistant Project Manager

August 2025-present

- Coordinate communication between student project team and EIA company
- Plan weekly meetings, develop agendas, and assign tasks for team of 30 students
- Organize leadership team for recruitment, onboarding, and team development initiatives
- Track project progress, maintain documentation, and ensure deadlines are met across all subteams

WASH Subteam Lead

August 2024-May 2025

- Lead and teach team about technical design and construction techniques
- Design solar-powered water distribution systems using AutoCad for rural communities in Eswatini
- Partner with professional engineers to design system and professionally present project work throughout the year

Education

Cornell University, College of Agriculture and Life Sciences

Ithaca, New York

Bachelor of Science in Environmental Engineering

August 2023-May 2027

- Relevant Coursework: Environmental Engineering Processes, Statics and Mechanics of Solids, Engineering Computations with Python, Fluid Mechanics
- Assistant Project Manager, Engineers in Action Project Team
- Member, Rise Dance Group

Other

New York State Seal of Biliteracy, Bulgarian and Spanish

2023

Technical Skills: Python, R, AutoCad, Google Earth Pro, Excel, Powerpoint, Word

Language Skills: Fluent in Bulgarian and English. Conversational skills in Spanish.