

Victoria Elizabeth Escuer Velásquez

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA May 2026
Bachelor of Science in Industrial Engineering, GPA: 3.96 / 4.00
Master of Science in Information Technology

PROJECTS

2016-2020 U.S. Hospitals Information Analysis – Data Management for Analytics, WPI April 2024

- Leveraged advanced data mining and visualization techniques using Python, such as association and correlation, logistic regression, and plots, to manipulate and wrangle the original dataset to improve readability.
- Identified 5 key performance indicators pre-, during, and post-pandemic, deepening understanding of critical factors like hospital ratings, emergency services, patient experience, and care efficiency, influencing overall hospital status.

Garret Pumps Inc. Employee Scheduling – Work Systems and Facilities Planning, WPI April 2024

- Evaluated weekly flow distance within the facility and proposed a more optimal layout featuring 3 departments determined through rank order clustering techniques, leading to streamlined operations.
- Recommended removing 33 unused machines of 58, rearranging 25 machines and duplicating only 1 to increase throughput, reduce distance traveled by 90%, and free up about 23,808 ft² of space for offices and inventory storage.

LCI Paper Co. Simulations Report, WPI Dec 2023

- Implemented simulation modeling to optimize resource utilization and workforce scheduling, resulting in enhanced overall performance and improved customer satisfaction by 10%.

Upgrading Athletics Equipment Room Procedures, WPI March 2023

- Analyzed student-athletes' practice, games, and uniforms inventory trends to optimize turn around operations.
- Developed and proposed an action plan to facilitate inventory movements, reduce lead times, and improve overall service quality and performance.

PROFESSIONAL EXPERIENCE

Electrification and Sales Marketing Internship, ABB May 2024 – Present

- Support the rebranding initiative from GE to ABB by setting up 250 new product listings on Home Depot and Lowe's websites, ensuring a seamless transition and consistent brand presence for upcoming product launches.
- Conduct comprehensive competitor pricing analysis, resulting in actionable insights and strategic recommendations that will enhance the company's competitive pricing strategies by 10%.

Admissions Associate and Crimson Key Tour Guide, WPI Feb 2023 – Present

- Collaborate with admission counselors to offer guidance and assistance to prospective students.
- Provide prospective students and families with educational information about WPI's curriculum, project-based opportunities, traditions, clubs, and organizations.

Control Desk Attendant, Sports and Recreation Center, WPI Feb 2023 – Present

- Responsible for daily operations and event management for sports tournaments and networking events.

Student Associate, Career Development Center (CDC), WPI Nov 2022 – Present

- Collaborate with employers to facilitate recruitment opportunities like career fairs and networking events.
- Advise students on existing resources, events, and networking opportunities geared towards career advancement.

LEADERSHIP

Captain – Women's Varsity Volleyball Team, WPI April 2024

Tau Beta Pi – Engineering Honor Society, WPI April 2024

Society of Hispanic Professional Engineers (SHPE) President, WPI Feb 2024 – Present

Student-Athlete Advisory Committee Representative, WPI Nov 2022 – Present

EXTRACURRICULAR ACTIVITIES

Society of Women Engineers (SWE), WPI Jan 2023 – Present

Institute of Industrial and Systems Engineers (IISE), WPI Nov 2022 – Present

International Student Council (ISC), WPI Aug 2022 – Present

Division III Varsity Volleyball, WPI Aug 2022 – Present

ACHIEVEMENTS

Dean's List Fall 2023, WPI Feb 2024

Dean's List Spring 2023, WPI May 2023

Dean's List Fall 2022, WPI Jan 2023

LANGUAGES AND SKILLS

English (*Fluent*), Spanish (*Native*), Microsoft Word, Excel, PowerPoint, Access, SQL, Visio, Python, Arena Simulation