

# MARTIN EDWINI-BONSU

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## TECHNICAL SKILLS

**Laboratory:** Gas Chromatography, Spectrophotometry, Process Equipment Operation, Microscopy, Instrument Calibration,

**Computer:** Python, VBA Excel, R Programming, SOLIDWORKS, Microsoft Office, MATLAB, JavaScript, AutoCAD, PowerBI, SOLIDWORKS, MATLAB, JavaScript, HTML/CSS, Plant 3D, SQL

**Other:** Project Management, Water and Wastewater Treatment Design, Material & Energy Balances, Earned Value Management, Procurement, Information and Database Management, Data Analysis, Data Visualization, Program Development & Coordination, Event Planning and Coordination, Content and Social Media Management, Material & Energy Balances,

**Certifications:** AB Class 5 Driver's License, UBC Chemical Safety Training, Standard First Aid CPR, Confined Space Entry, Fall Protection, H2S Alive

## EDUCATION

The University of British Columbia (UBC)

September 2021 - April 2026

Bachelor of Applied Science - Chemical Engineering

GPA: 3.85/4.0

## WORK EXPERIENCE

**Associated Engineering**, Edmonton, Alberta

May 2024 - Present

### ***Water Resources Co-op Student***

- Led project coordination through delivering earned value management and project management services for over +25 interdisciplinary water and wastewater treatment infrastructure projects across Canada
- Analyzed +1,500,000 operational data points to conduct performance assessments on water and wastewater treatment equipment
- Contributed to the planning, assessment, and design of +35 water and wastewater infrastructure projects including treatment plant upgrades, lagoon expansions, and lift station retrofits.
- Developed and upgraded 8+ engineering process automation tools using Python and Excel to streamline tasks such as climate risk calculations, contract document generation, equipment tagging, and document retrieval, which reduced time spent on manual effort by more than 90%.

**UBC Climate Solutions Research Collective**, Vancouver, British Columbia

September 2023 - April 2024

### ***Climate Solutions Project Assistant***

- Develop and manage online databases to foster collaboration between +600 faculty members and +40 associations who work on climate-related research
- Facilitate event and workshop planning for 6 events and workshops with 300+ participants attending
- Collected and analyzed program feedback from 100+ participants for future program improvements
- Leverage community outreach efforts to achieve a 60% growth in social media followers

**UBC Geering Up Engineering Outreach**, Vancouver, British Columbia

May 2023 – September 2023

### ***Materials Inventory & Procurement Manager (Co-op)***

- Managed the procurement, inventory, and distribution of +10,000 items used for science and engineering activities
- Prepared STEM programming supplies to support outreach to +12,000 youth and provide professional development training to 70+ instructors across 5 locations

- Orchestrated the execution of 50+ workshops and camps by ordering, organizing, and preparing materials
- Fulfilled ordering and material requests from +420 staff, maintaining a 100% on-time delivery rate

**Green Career Centre, Toronto, Ontario**

July 2022 – March 2025

***Sustainability Outreach, Engagement, and Resource Manager***

- Expanded the organization's social media following by 108% through outreach to +60 organizations
- Created +550 social media posts and promoted sponsored posts from partnering organizations to more than +16,300 followers and gained +1,000,000 impressions
- Authored 11 blog posts and 8 career development resources read by 5,000 monthly readers
- Implemented active outreach and coordination strategies that increased social media engagement by 74%
- Managed social media analytics and formed 100+ partnerships with various environmental organizations and influencers to promote job postings, articles, and professional development events

***Environmental Employment Researcher (2022)***

- Hosted 4 focus groups and workshops of 20+ participants on barriers to environmental employment
- Collaborated with researchers to develop 2 career development guides for jobseekers looking for environmental careers
- Authored an 11-page policy brief on employment barriers for youth seeking environmental jobs

**Sustainable Life App Company, Kelowna, British Columbia**

July 2022 – January 2023

***Sustainability Research Analyst***

- Analyzed +400 statistics and data on environmental indicators to develop a carbon footprint calculator
- Constructed +25 mathematical formulae based on data collection of environmental indicators and ran test models of formulas in Excel
- Developed a feedback analysis model based on +10,000 users' responses to generate results on users' carbon footprint

**ENGINEERING STUDENT TEAMS**

**Engineers For a Sustainable World (UBC)**

September 2022 - April 2023

***Co-Lead & Sustainable Food Systems & Development Analyst***

- Assessed a post-consumer food waste audit of 500 kg of food waste in dining halls to evaluate UBC's All-Access Dining Plan Impact on food waste
- Evaluated +50 life cycle assessments and literature reviews on food items and existing food waste prevention strategies
- Employed Excel to analyze 16 food waste samples from 2,000 students and calculated the carbon footprint of +60 food items
- Showcased research findings to clients, supported by 7 infographics and an action plan, including 11 evidence-based recommendations for reducing campus food waste by 50% by 2030 and improving methodology design