

# William Bteish

Sustainability advocate | William.j.bteish@gmail.com | +961 71887339 | +966 55 861 8520

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## EDUCATION

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**Holy Spirit University Kaslik, USEK**

**2025**

Bachelors of Engineering BE, Chemical Engineering, GPA: 3.2/4

Lebanon

- Secretary, American Institute of Chemical Engineers, USEK student chapter (AIChE)
- Related coursework: Water and waste treatment, Sustainability & eco design, Health, Safety and Environment (HSE) in chem. industry, Plant Design, Project Management

## WORK EXPERIENCE

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**USEK SOE**

**Kaslik, Lebanon**

Waste management project engineer

Sep. 2024 – Jun. 2025

- Developed an agro waste based activated carbon for targeted wastewater treatment application
- Conducted batch adsorption design and testing to assess the performance of the synthesized material
- Analyzed lab data in excel using nonlinear fitting and regression data analysis methods
- Designed adsorption equipment for continuous operation testing and validation
- Evaluated environmental, social and economic impacts of the project's lifecycle

**Prepak Indevco**

**Zouk Mosbeh, Lebanon**

Production engineering intern

Jul. 2024 – Aug. 2024

- Led risk assessment using HAZOP methodology to enhance process safety and reduce recurrence of equipment-related hazards
- Optimized machine reliability and uptime by monitoring cycle times and implementing preventive maintenance measures within the total productive maintenance (TPM) program
- Trained operators in safe operation using 5-S strategies and supported maintenance teams in troubleshooting equipment faults

**Solaris Green**

**Dbayeh, Lebanon**

Sustainability engineering intern

Dec. 2023 – Jan. 2024

- Led tendering processes and bids for solar energy systems, ensuring compliance with specifications, accurate quotations, and proposals to secure contracts
- Participated to the design and consultancy of solar system projects, gaining valuable experience in the renewable energy sector

## SKILLS & SOFTWARES

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- *Software:* Aspen Plus (process modeling, sensitivity analysis), WAVE DuPont (RO design), MATLAB (data analysis & heat transfer simulation), PVsyst (solar energy system design), Microsoft Excel (advanced)
- *Engineering skills:* PFD, P&ID, Bowtie analysis (corrective/preventive actions), Root Cause Analysis, Process Safety Management (HAZOP), Pumps and control valve sizing

## LANGUAGES & INTERESTS

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- **Languages:** Arabic: Native | English: Professional working proficiency | French: Professional working proficiency
- **Interests:** Sustainability, CBS videos (incident investigations), Football, Traveling, Calisthenics,