

Alexandre Renaud

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Education

Northeastern University | Boston, MA 2023
Candidate for *Bachelor of Science, Environmental Engineering & Landscape Architecture* GPA: 3.84

- Awards – University Honors Program, Dean's List Fall 2018-Fall 2019
- Involvement – Engineers Without Borders, Composting at NU, Green Line Records, NU Food Recovery,
- Relevant Courses – Materials of the Built Environment, Statics and Solid Mechanics, Engineering Microbiology and Ecology, Alternative Energy Technologies Abroad, Architectural Design, Planting Design, Environmental Engineering

Hamilton-Wenham Regional High School | Hamilton, MA 2018

- Awards – Salutatorian, DAR Good Citizens Award, Patton Family Leadership Award GPA: 4.2/4.3
- Involvement – Varsity Soccer (Captain), Varsity Basketball, Band (Double Bass, Piano), Kings of the Beach *a cappella*

Professional Experience

- **Transportation Department, City of Boston, Transportation Planning Co-op** | Boston, MA Summer 2020-Present
 - Create design schedules, manage consultant relationships and ensure project delivery
 - Analyze transit data and offer solutions to advance transit priority and mobility for all transportation modes
 - Lead engagement processes and integrate feedback into design to best serve impacted communities
- **Global Resilience Institute, Undergraduate Research Assistant** | Northeastern University Fall 2019-Summer 2020
 - Supported economic recovery efforts from the COVID-19 pandemic in the New England states for FEMA in coordination with the MIT Lincoln Laboratory by conducting interviews, researching economic impacts
 - Self-initiated a literature review on evaluating resilience indicators in physical, economic and social environments to support resilience analysts in the Integrated Resilience Enhancement Process
- **Chive Events, Relish Catering and Events, Catering Assistant/Server** | Beverly, MA Spring 2013-Spring 2020
 - Arranged and managed events by ensuring the execution of event schedules and client requests
- **North Shore Music Theater's Backstage Bistro, Waiter** | Beverly, MA Summer 2016-Spring 2020
 - Maximize customer satisfaction through effective time management of food service
 - Organize orders and communicate with kitchen and bar staff through Point of Sale software
- **College of Engineering, Peer Tutor** | Northeastern University Spring-Fall 2019
 - Advanced students' learning weekly in one-on-one sessions for STEM courses: Calculus I/II/III, AutoCAD, Chemistry, SolidWorks
- **Bay State Blizzard AAU Teams, Basketball Coach & Instructor** | Topsfield, MA Spring 2013-Spring 2017
 - Coached a group of 5th graders in practices and games to teach basketball and develop personal character

Academic Projects

- **Materials of the Built Environment, Pervious Concrete Design Project** | Northeastern University Fall 2019
 - Designed and mixed pervious concrete samples and tested its hydraulic and mechanical properties on a compression machine, all according to ASTM standards
 - Analyzed data through graphs and charts, reporting an optimal water-to-cement ratio of 0.45 for pervious concrete design based primarily on compressive strength
- **International Council for Local Environmental Initiatives, Research Volunteer** | Brazil Summer 2019
 - Conducted personal research, toured site facilities and collaborated with peers and government officials of the City of Fortaleza to learn about energy consumption in the city and construction practices
 - Created an action proposal delivered to professionals and a report written to Mayor Cláudio of Fortaleza that support a tripartite financial agreement, green infrastructure application and recycling of construction waste to reduce greenhouse gas emissions by up to 60% in ten years

Leadership & Involvement

- **Beta Theta Pi, Eta Zeta Chapter** | Northeastern University Fall 2018-Present
 - New Member Educator – 2020
 - New Member of the Year, Interfraternity Council Special Events Chair – 2019

Skills

AutoCAD, C++, Matlab, SolidWorks, Microsoft Office, Spanish Language Proficiency

Commented [1]: Full list of bullets:

- Arranged and managed events by ensuring the execution of event schedules and requests
- Prepared food complying with aesthetic, quality and sustainability standards
- Executed events according to the personal tastes of clients, managing and exceeding expectations