68 Alleghany Street, Boston, MA 02120

**Alexandre Renaud** 978.500.8030 | renaud.al@northeastern.edu

 LinkedIn – [rb.gy/yh2kwk](http://rb.gy/yh2kwk)

**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