Jebreel Bessiso

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EDUCATION

Cornell University, Ithaca, NY
Bachelor of Architecture | Expected Graduation: May 2026 | Grade Point Average (GPA): 3.935
Relevant Courses: Design I-IX, Structural Concepts, Structural Systems, Environmental Systems, Parametricism, Healthy Building Materials, AI from MLPs to APIs, Object-Oriented Programming and Data Structures

SKILLS

Software: Adobe Creative Suite, Rhinoceros 3D, RhinoCAM, Grasshopper, Vray, Enscape, Revit, AutoCAD, ArcGIS Pro + StoryMaps, Blender, Microsoft Office Suite
Fabrication Skills: 3D Printing, Laser Cutting, Woodworking, CNC Mill Programming, Model Making
Programming Languages: Python, Java, Processing, p5.js
Languages: English (fluent), Spanish and Arabic (conversational)

AWARDS AND RECOGNITION

Cornell AAP Dean's List (6x)
United States Presidential Scholar in the Arts Semifinalist (2021)
YoungArts Finalist in Visual Arts & Honorable Mention in Design Arts (2021)

WORK EXPERIENCE

Center for Community Transportation | Ithaca, NY
3D Modeling & Visualization (Freelance) August 2025 – September 2025

- Used Rhino to 3D-model and Vray + Photoshop to create multiple renderings of the Center for Community Transportation's proposed mobility hubs as part of their NYSERTA grant application.

RESEARCH

Realtime Urbanism Lab | Ithaca, NY
Research Assistant July 2025 – September 2025

- Used Revit and the Tally LCA plug-in to demonstrate the impact of various sustainable building strategies (deconstruction, preservation and infill, vertical expansion, etc.) on the embodied carbon, cost, architectural design and functionality of ongoing and proposed building projects throughout Ithaca, NY.
- Used ArcGIS Pro and ArcGIS StoryMaps to communicate and present findings to stakeholders.

Martin Miller Lab | Ithaca, NY
Fabrication Assistant (Volunteer) February 2025 – August 2025

- Assisted in fabrication, assembly, and installation of the MushHaus Pavilion, made of mycelium modules.

Cornell University Sustainable Design (CUSD) | Ithaca, NY
Sustainable Mobility Shelter: Co-Leader January 2022 – present
Multidisciplinary team designing a modular bus shelter with integrated lighting that responds to approaching buses.

- Co-leading a redesign of the bus shelter into a modular catenary structure with integrated lighting.
- Designed and 3D-printed prototypes of a triangular building module for use in the structure.
- Scripted a preliminary parametric model of the bus shelter in Grasshopper.
- Collaborated with mechanical engineering members on design iterations and improvements.
- Assigned design tasks to 5+ architecture and engineering sub-team members.
- Designed presentations and led meetings with potential stakeholders for the project.
- Managed project workflow through Slack and Google Drive.

E-board member representing Sustainable Mobility Shelter September 2024 – December 2025

- Recruited, interviewed, selected, and onboarded Sustainable Mobility members.
- Prepared and delivered workshops on Environmental Product Declarations and Life Cycle Assessments