



GERALD JASON CRUZ

UAE Golden Visa Holder

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jasoncruz.co

WORK EXPERIENCE AND PROJECTS

Full project list and portfolio available at jasoncruz.co/projects

Urbz Collective

Mumbai, India

Architectural & Engineering Intern, January – October 2024

- Led the sustainable design of a 35,500 sq ft multipurpose community facility next to the Mithi River, integrating solutions for pollution mitigation and minimizing environmental impact on the adjacent mangrove ecosystem.
- Engineered a 200-meter long riverside gabion wall, balancing flood protection with ecological preservation.

NYU Abu Dhabi Civil Engineering Capstone

Abu Dhabi, UAE

Structural & Architectural Engineer, August 2023 – May 2024

- Proposed a masterplan for a 4.8 km² mixed-use sustainable seaport located in Abu Dhabi, UAE, with a capacity of 3.85 Million TEU, in collaboration with AD Ports Group
- Designed the architecture and structural system of a 5 storey administration office building, implementing passive cooling and sustainable solutions.
- Headed the production of structural drawings with detailed design on AutoCAD, BIM model with Revit, and renders.

GMH Architecture PLLC

New York City, USA

Architectural Intern, April – August 2023

- Shadowed under head architect on 4 different residential apartment projects in Manhattan.
- Interacted with clients and real estate agents in the design development stage of 2 projects.
- Coordinated as project manager for a 3,500 sq ft construction project, completing punch lists, quality control, successfully turning over the apartment to the clients.
- Studied the NYC building code and drafted construction drawings for two residential apartments adhering to codes using AutoCAD.

Analysis and Design of Tall Buildings Final Project (Graduate Course)

New York City, USA

Structural & Architectural Engineer, January – May 2023

- Spearheaded the architectural and structural design of a 305 m tall office building with a diagrid structural system, to be located in New York City.
- Created comprehensive structural plans, including numerical analysis of building strength and serviceability with ETABS, adhering to New York City and ASCE 7-22 codes.
- Presented technical reports to architects and structural engineers at SOM's New York office.

Zauberzeug GmbH

Münster, Germany

Design Intern, June – August 2022

- Designed a 500 square meter office for a robotics company in Münster's new technology park, including a workshop, fabrication and testing area, showroom, and guest apartments.
- Created and rendered various electronic products and their casings for robotics applications, including micro cameras and electromagnetic acoustic measurement devices using Fusion 360.

Core Engineering Consultancy

Abu Dhabi, UAE

Civil Engineering Intern, June – August 2021

- Compiled and presented a 400 page Detailed Master Plan for an up and coming mixed used island development in Umm Al Quwain emirate, UAE.
- Worked with AutoCAD to design and annotate roads and a bridge leading to the mixed used island development.
- Calculated the Estidama Pearl Rating System (UAE's LEED equivalent) and demands for the water, plumbing, and electric utilities of a sustainable residential development in Abu Dhabi.

EDUCATION

New York University Abu Dhabi

May 2024, Bachelor of Science in Civil Engineering
Minor in Design
GPA - 3.72 / 4.0 scale
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New York University

May 2024, classes in Civil and Urban Engineering, Urban Design and Architecture Studies

Illinois Institute of Technology

July 2018, Architecture Summer Program

SKILLS

Relevant Coursework

Environmental Engineering, Steel Design, Concrete Design, Foundation Design, Project Management, Finite Element Modeling, Numerical Methods and Data Analysis

3D Modeling Software

Autodesk Suite: Revit, Civil 3D, AutoCAD, Navisworks; Graphisoft ArchiCAD, ANSYS Spaceclaim, Rhino, Grasshopper, SketchUp

Finite Element & CFD Software

SAP 2000, ETABS, ANSYS: Fluent, Mechanical

Programming

C++, MATLAB

Adobe Creative Suite

Photoshop, Illustrator, InDesign, Premiere Pro

Rendering Software

Twinmotion, V-Ray, Lumion

Languages

*English (Native)
Filipino (Native)
German (Working Proficiency)
Spanish (Working Proficiency)*



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HONORS AND AWARDS

Dubai Design Week Featured Participant

Dubai, UAE

Designer and Engineer, Dubai Design District (d3), June – November 2024

- Spearheaded the design of Tbaa, a pavilion utilizing sustainable materials such as reusable construction scaffolding, recycled plywood, and biodegradable fabrics.
- Headed the structural design, acquiring of sponsors, and project management, including material sourcing and waste reduction.
- Visited by over ten thousand of attendees and received international media coverage.

The Christo and Jeanne-Claude Award 2022

Abu Dhabi, UAE

Recipient, NYUAD Art Gallery / Abu Dhabi Music and Arts Foundation, March – November 2022

- Led team that designed the winning proposal for a public sculpture displayed in Abu Dhabi.
- Received 10,000 USD for the creation of the sculpture, titled Urban Fabric.
- Headed the structural design, finances, and project management of the sculpture for its production, resulting in the project being on time and on budget.
- Oversaw the logistical installation planning of the sculpture across 4 different locations around Abu Dhabi including: Manarat Saadiyat, NYU Abu Dhabi, & Umm Al Emarat Park.

5th Emirates Mars Competition

Dubai, UAE

1st Place Recipient, Mohammed Bin Rashid Space Center, February 2022

- Presented the winning proposal for a method to interpolate and predict weather patterns on Mars, using infrared and imaging data collected from the UAE's Hope Probe.

Abu Dhabi Art Pavilion Prize

Abu Dhabi, UAE

1st Place Recipient, Abu Dhabi Dept. of Culture & Tourism, November 2021

- Designed the winning proposal for the entrance pavilion of the Abu Dhabi Art Fair.
- Integrated the use of sustainable materials, such as construction scaffolding and biodegradable canvas, which would receive second life after the pavilion is used.
- Oversaw the detailed design, creation, and construction of the 100 m² structure over the course of 4 months, with a total budget of 150,000 AED (41,000 USD).

RESEARCH AND LEADERSHIP

Center for Interacting Urban Networks (CITIES)

Abu Dhabi, UAE

Research Assistant, August 2021 – August 2022

- Awarded research for a proposal to Abu Dhabi's Dept. of Municipalities and Transport to investigate mitigation strategies to reduce the city's urban heat island effect.
- Headed a four person team that drafted a proposal to upgrade road networks and design passive cooling infrastructure to be implemented from 2050-2070.
- Worked with ANSYS Fluent software to fully model infrastructure and simulate impacts of materials and city planning to minimize temperature increase from climate change for a 0.15 sq km area in the heart of Abu Dhabi.

American Society of Civil Engineers NYUAD Student Chapter

Abu Dhabi, UAE

President (appointed), January 2022 – May 2024

- Heads the ASCE Student Chapter with over 80 members, engaging with civil engineering and urbanism discourse through talks and events.
- Organizes construction site visits for students with ALEC, a major construction company in the region, to large scale projects such as the Abu Dhabi Natural History Museum.
- Hosts workshops, talks, and panels with people in the government and industry, with an average attendance of 50 people.

NYUAD Engineering Department

Abu Dhabi, UAE

Teaching Assistant, August – December 2021

- Taught C++ to over 150 freshman students through coding exercises, quizzes, and feedback.