ABHINAV BHARDWAJ

Architect | Urban Designer | Computational Designer

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About:

Abhinav Bhardwaj, a 25-year-old architect, urban and computational designer, is dedicated to leveraging technology to revolutionize societal design. With a bachelor's degree in architecture from Galgotias University, Abhinav has excelled in diverse roles across international architecture firms. Currently pursuing an MSc. in Transforming City Regions at RWTH Aachen University, he spearheads the integration of modern technology and computation into architectural design and urban planning. Passionate about innovating solutions to global challenges through architecture, Abhinav drives impactful change at the intersection of technology and design.

Education:

- Youtube   (2010 - Present)
- MSc. Transforming City Regions (Urban Design and City Planning), RWTH Aachen University, Germany   (2022-24)
- Bachelors of Architecture, Galgotias School of Architecture, Greater Noida   (2016-21)

Professional experience:

Computational Design Intern   (Sep. 2023 - Present)
Link Arkitektur, Copenhagen, Denmark / Sweden

- Involved in the development of the open-source Speckle Life Cycle Assessment (LCA) tool to meet strict regulations in Sweden, Norway, and Denmark, facilitating seamless carbon emissions and sustainability analysis and optimization in architectural projects.
- Currently enhancing daylighting and environmental factor calculations algorithms in the Link IO BuildingSketcher tool and establishing a framework for Parametric Urbanism.

Research Assistant   (Dec. 2023 - Present)
Werkzeugmaschinenlabor, WZL, Aachen, Germany

- Digital factory planning, automation, and B.I.M initiatives, driving efficiency and innovation in manufacturing processes.
- Collaborated with cross-functional teams like BMW and Tesla to implement cutting-edge technologies and optimize production workflows.

Parametric Designer/Architect   (Dec. 2023 - Feb. 2024)
NBAX Architects, Frankfurt, Germany / Shanghai, China

- Transformed architectural design and planning processes through advanced computational methodologies.
- Worked in multidisciplinary teams in Germany, China, Dubai and Canada leveraging parametric design principles to deliver innovative and sustainable solutions for diverse projects.

Architect - Working Student   (Feb. 2023 - Sep. 2023)
Greeen Architects, Düsseldorf, Germany

- Conceptualized and executed government, residential, institutional, and commercial projects, ensuring alignment with client objectives and industry best practices.

Computational Architecture Intern   (Aug. 2022 - Oct. 2022)
Quino Bono Arcquitectos, Valencia, Spain

- Integration of computational design methodologies into architectural projects, optimizing environmental, structural, and aesthetic parameters.
- Leveraged advanced software suites including Rhinoceros, Grasshopper, Enscape, and Revit to enhance design feasibility and success.

Professional experience:

Architect   (July 2021 - Jan. 2022)
Basics Architects, New Delhi, India
- Contributed creative insights and technical expertise to a wide range of architectural projects, from concept development to construction documentation.
- Collaborated closely with clients and stakeholders to translate design visions into reality, meeting rigorous quality standards and deadlines.

Architecture Intern   (Jan. 2020 - Dec. 2020)
Navin Kumar Architects, Meerut / Ahmedabad, India
Fether - The Design Studio
- Involved in the design and development of residential and commercial projects, gaining hands-on experience in architectural drafting, modeling, and visualization.
- Assisted in client meetings, site visits, and project coordination, demonstrating a strong commitment to excellence and continuous learning.

Skills:

Tools:

- Grasshopper
- Rhinoceros
- Autodesk Revit
- Unreal Engine
- ArchiCAD
- Photoshop
- InDesign
- Illustrator
- SketchUp
- Z-Brush
- Lumion
- Affinity
- Enscape
- V-Ray
- Maya

Plugins:

- Ladybug
- Honeybee
- Decoding Spaces
- Urbano
- Elk
- Karamba
- Dragonfly

Achievements:

- Erasmus, Semester Abroad, DAAD Scholarship, Denmark   2023
- Participant, "University of Madris, Student housing design", Spain   2022
- Best Architecture Thesis of the year, GSOA, Greater Noida   2021
- Participant, "A Bench in Venice" design competition, N.P, UAE   2021
- Winner, Assembly building Design competition, Mumbai Development Authority   2020
- Volunteer Instructor for Rhinoceros, Grasshopper, and Revit for a class of 20 students   2020
- Participant, Annual NASA Design competition (ANDC)   2019
- Freelance Sketchup instructor for a group of 10 students at a CAD training center, Ghaziabad   2019
- Volunteer for creating awareness under the Smart City mission of the Indian Government, Meerut 2018
- Volunteer in graphity design on metro pillars, Delhi Government   2017

Recent Projects:

- Speckle Life cycle assessment tool, Link IO, Copenhagen, Denmark - Sweden - Norway   2024
- Urban Sketcher tool - Framework developement, Link IO, Copenhagen, Denmark - Sweden - Norway 2024
- Link EP tool extension - Energy frameworks extension, Link IO, Copenhagen, Denmark - Sweden - Norway 2024
- Breco/ Segiwa - Digital factory automation projects, Germany   2024
- 5 star hotel projects, Dubai and China   2023-24
- Urban mixed use development, Ertfurt, Germany   2023
- Mixed use housing project, Barcelona, Spain   2023
- University of Madrid, Student housing design, Madrid, Spain   2022-23
- Mixed use beach housing project, Valencia, Spain   2022-23
- Urban socio sustainability - Transforming zuid Limburg, Netherlands   2023