

# Daniel Jansen Harianto

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## SUMMARY

- Interdisciplinary urban designer trained in GIS, scripting modeling, and data science
- 4 years of experience in architecture and urban design focused on Nusantara Masterplan's provision, Transit-Pedestrian-Oriented development, and renowned international masterplan projects
- Runner-up urban design proposal for Indonesia's New Capital City Design Competition

## EDUCATION

Aug 2017 – Oct 2021 Semarang, Indonesia	<b>Soegijapranata Catholic University</b> Undergraduate, Majoring in Architecture <ul style="list-style-type: none"><li>• Summa Cum-Laude GPA: 3.90 out of 4.00</li><li>• Best Capstone Project: "The Smoked County Relish: A Cultural Compound by Reusing Building in Bandarharjo, Semarang, Indonesia"</li></ul>
July 2019 Dasmariñas, Philippines	<b>De La Salle University</b> Annual Collaborative Program, Majoring in Architecture

## EXPERIENCE

Sept 2024 – Present Jakarta, Indonesia	<b>Surbana Jurong Private Limited, Associate Urban Designer</b> <ul style="list-style-type: none"><li>• Managed a team of two urban planners to improve generative design for Kalimantan Industrial Park as a national strategic plan in close collaboration with PMs and the Singapore team.</li><li>• Redesigned process workflow Special Economic Zones Guidelines for private masterplan projects that use algorithmic processes while optimizing work schedules by 15%.</li><li>• Led GIS-based data scrapping for the Highest and Best Use of Indonesia Airports masterplan, including multi-criteria analysis, and taught GIS-Grasshopper courses.</li></ul>
Jun 2022 – Aug 2024 Jakarta, Indonesia	<b>URBAN+ (PT Studio Urban Rancang Selaras), Urban Designer</b> <ul style="list-style-type: none"><li>• Managed a team of 3 urban designers developing a generative design methodology that does feasibility urban plots for master plans. Become a knowledge center for a large part of the algorithm approach, working closely with PM's and directors.</li><li>• Redesigned process workflow of USD 3.500.000 Middle East masterplan projects and honored with 2 notable international awards, while optimizing work schedule by 25%.</li><li>• Implemented computational design features in an agile framework using a largely geospatial stack (Geopandas, Shapely, Mapbox GL JS). Created a web app for a real estate client's internal business development, providing data-driven visualizations such as population density, land use portion, and service coverage.</li><li>• Worked on Nusantara Capital City Urban Design Guidelines, building computational tools, and performing urban data analysis for parcel codes. Increasing the workflow by 40%.</li><li>• Created pedestrian recommendation modeling using geospatial stack and C# Grasshopper for the Transit-Oriented Pilot Project of the Indonesia-Australia Partnership for Infrastructure (KIAT).</li><li>• Led GIS-based data scrapping for 4 distinct nodes of the North-South Corridor Singapore project, yielding urban design provisions, and taught GIS courses.</li></ul>
Feb 2022 – May 2022 Jakarta, Indonesia	<b>Formologix Laboratory, Computational Designer, Part-Time Research Assistant</b> <ul style="list-style-type: none"><li>• Created a USD 500.000 masterplan site feasibility study for Wonosobo Dafam Hotel Expansion Planning. Developed and presented a cottage-type permutation using C# Grasshopper.</li><li>• Modeled engraved details for CNC milling, made shop drawings, and assisted in the construction of a custom furniture prototype.</li></ul>
Apr 2020 – Mar 2022 Jakarta, Indonesia	<b>Ministry of Public Works and Housing Republic of Indonesia, Architectural-Urban Design Assistant</b> <ul style="list-style-type: none"><li>• Assisted assemblance of standardized Key Performance Indicator for Phase 1 Nusantara design implementation. Introduced a focus area algorithm toolset to score land use performance.</li><li>• Drafted 200-hectare Key Performance Indicators for climate and land grading assessments, resulting permutation scenarios for Nusantara Capital City Core TOD Precinct Urban Design Development.</li><li>• Assisted standardized performance housing permutation on undulating terrain for Nusantara Capital City West Residence using C# Grasshopper.</li></ul>

ORGANIZATION

Jan 2020 – Present Semarang, Indonesia	<b>Komunitas Arsitektur Semarang (KAS), GIS Specialist, Urban Researcher</b> Involved in design and build Timbuksloko and Tambak Lorok settlement mitigation, prepared architecture exhibitions, seminars, and software tutorship toward educational institution partnerships
Aug 2023 – Present Jakarta, Indonesia	<b>Ikatan Ahli Rancang Kota Indonesia (IARKI), Member</b> Involved in preparing local webinar and editor column on the rubric of IAKRI.
Jun 2022 – Aug 2024 Jakarta, Indonesia	<b>URBAN+ Institute, GIS Specialist, Urban Researcher</b> Simulated and analyzed Jakarta City's open-source data, including municipal sources, applied to several city-scale research projects on walkability, green ratio, and impoverished population.

PUBLICATION

**Daniel J. Harianto**, Alicia Wellsan (2024). Experimenting 'gentle density': using plot sizing tool to blend missing middle housing into existing neighborhoods in Tanah Abang TOD. IOP Conference Series: Earth and Environmental Science, Volume 1394. The 3rd International Conference on Urban Design and Planning. DOI 10.1088/1755-1315/1394/1/012022.

**Daniel J. Harianto**, F. A. (2023). Reclaiming Necessity: Dignifying Immaterial Debris into Succor Habitation. Retrieved from KoozArch: <https://www.koozarch.com/archipelago/reclaiming-necessity-dignifying-immaterial-debris-into-succor-habitation>

**Daniel J. Harianto**, G. P, et al, (2023). Jakarta Green Justice: Evaluating The Provision of Jakarta Green Open Space. In R. N. Rocco, Symposium Spatial Justice in Practice Book of Abstracts (p. 206). Delft: Centre for Just City, TU Delft.

**Daniel J. Harianto**, (2022). 'The Smoked County Relish' project revokes poverty and technology disjunction in Indonesia. Retrieved from designboom: <https://www.designboom.com/architecture/daniel-jansen-harianto-the-smoked-county-relish-thesis-project-indonesia-09-09-2022/>

HONOR AND AWARD

Aug 2024	<b>First Winner of North-South Corridor (NSC), Land Transport Authority (LTA) Singapore</b> Awarded for collective work proposal of urban rejuvenation for four distinct district gateways, Led GIS masterplan provision under collaboration with CISTRI, Ramboll, and Henning Larsen team.
July 2024	<b>First Winner of Lulu Island Masterplan Competition, Eagle Hills, Abu Dhabi UAE</b> Managed a team of two designer, implemented computational permutations for masterplan usage program.
Dec 2022	<b>First Winner Architectural Category Asia Young Designer Awards (AYDA)</b> Awarded as Indonesia's representative for Asia Young Designer Awards Summit.
Dec 2021	<b>Shortlisted Hybrid Student Category of World Architecture Festival (WAF), Architecture Drawing Prize</b> Awarded hybrid drawing technique (hand drawing-digital) with entitled project of "The Smoked County Relish".
Dec 2019	<b>First Winner National Cultural Week, Nusantara Architecture Animation Competition by Ministry of Education and Culture Republic of Indonesia</b> Led a team of three-members, visualized Sumatera's traditional tectonics and housing realm into animation.
May 2019	<b>Second Winner of Indonesia's New Capital City Urban Design Proposal Competition</b> Co-led national team of 5 designers with collaboration with AntiStatics, Beijing into housing permutation and final renderings.

SKILLS

Language	Packages	Software
Python	RhinoCommon	QGIS
C#	Shapely	Rhino/Grasshopper
JavaScript		Photoshop, Illustrator, InDesign