



**Jatmika Adi Suryabrata**  
Semarang, September 9, 1961

jsuryabrata@gmail.com  
jatmika@ugm.ac.id

<https://www.dpelab.com/>

## EDUCATION

Elementary School	1967 - 1973	SDN IKIP II, Yogyakarta, Indonesia
Junior High School	1974 - 1977	SMPN VI, Yogyakarta, Indonesia
Senior High School	1977 - 1980	SMAN III, Yogyakarta, Indonesia
Ir. (B.Arch)	1980 – 1985	Department of Architecture, Gadjah Mada University. Major: Architecture.
M.Sc.	1989 – 1991	College of Architecture and Environmental Design, Arizona State University. Major: Architecture with specialization in Passive Design, Bioclimatic Design.
Ph.D.	1993 – 1998	Department of Architectural and Design Science, Faculty of Architecture, The University of Sydney. Major: Architecture with specialization in Illumination Design, Building Physics.
Post-Doctoral	2007 - 2008	One year research program at TU. Wien, Vienna, Austria
Professional Training	1991	International Daylighting Workshop Denver, Colorado
	1995	Energy Simulation Workshop Sydney, Australia
	2011	Building Energy Audit, Jakarta.
	2018	Design for Greater Efficiency teaching modules. IFC (International Finance Corporation – World Bank Group), Jakarta

## EMPLOYMENT

1984 - 1989	Junior Architect, PT. Titimatra Tuju Tama. Architectural Design Firm.
1999 – 2003	Wastumatra Indonesia, Architectural Design
2003 – 2010	PT. Rimasyada, Pekanbaru, Riau Architectural Design Firm. Principal Architect.

<b>1986 to date</b>	Lecturer, Department of Architecture and Planning, Gadjah Mada University, Yogyakarta. <a href="https://archiplan.ugm.ac.id">https://archiplan.ugm.ac.id</a>
<b>2016 to date</b>	Design Performance Energy (D+E): Founder, Architect, Building Energy Analyst/Building Energy Simulation Specialist, Lighting Designer. <a href="https://www.dpelab.com/">https://www.dpelab.com/</a>
<b>2009 to date</b>	Member, Architecture and Planning Advisory Board (TABG), Government of DKI Jakarta.
<b>2012 to date</b>	International Finance Corporation (IFC) – The World Bank Group. <a href="https://www.ifc.org/">https://www.ifc.org/</a>
<b>2020 to date</b>	Green Building Specialist - Consultant Global Building Performance Network (GBPN). <a href="https://www.gbpn.org/">https://www.gbpn.org/</a> Senior Technical Expert - Consultant

## Professional Affiliation

Illuminating Engineering Society of Indonesia (HTII)  
Indonesian Institute of Architect (IAI)

## Professional Practices

1. Architect (Green Building / Bioclimatic Design)
2. Building Energy Analyst/ Building Thermal & Energy Simulation Specialist.
3. Illumination Design / Lighting Design
4. Architectural Acoustics

## Seminars

Invited speaker on green designs, passive designs on various seminars held by: Univ. Gadjah Mada, Univ. Indonesia, Institute Teknologi Bandung, Univ. Sebelas Maret, Univ Islam Indonesia, Univ. Taruma Negara, Univ. Pelita Harapan, Univ. Teknonogi Malaysia, Ministry of Public Works, Ministry of Energy, PT. Jasa Marga, Inkindo, HAMKI, IAI, HTII, PT.PP, GBCI, Danish Energy Management and others.

## RESEARCH AND STUDIES

2020- to date

Senior Technical Expert – Global Building Performance Network (GBPN)  
Developing model for low carbon residential buildings in Indonesia incorporating baseline models for cities and development scenarios.

2014 – 2015

Research partner – Commonwealth Scientific and Industrial Research Association (CSIRO – Australia)

Investigating and mapping available new technology and design of passive and low energy housing as a base for developing research strategies for passive and low energy housing for warm climates.

2012 to Date

Green Building Specialist - International Finance Corporation – World Bank Group  
Developing Government regulations on Green Buildings (particularly Energy and Water efficient designs for New Buildings).

a. Development and implementation of Green Building Codes in three pilot project cities:

Jakarta, Bandung and Surabaya.

b. Developing road maps for the implementations of Green Building Codes in other major cities in Indonesia.

c. Developing National Building Energy Efficiency Road Map and Tool Kits.

d. Developing and implementing Green Building Teaching Education Modules for 5 leading universities in Indonesia.

Responsibilities:

Conducting sensitivity analysis as a base for the development of the Green Building codes.

Developing the building codes with local and central government officials

Developing technical guidelines

Capacity buildings for government officials, architects, universities lecturers

Disseminations to all stake holders affected by the building codes.

Organizing and Delivering Green Building Educations in the selected Universities.

2012

Developing simple graphical design guidelines for architects to calculate Overall Thermal Transfer Values, to meet the green building codes.

2012

Danish Energy Management

Developing technical guidelines for energy efficient buildings.

## DESIGN PROJECTS

2021	UpTown Mall, BSB City, Semarang. Computational Fluid Dynamic (CFD) Simulation analysis to convert a fully AC mall into a naturally ventilated Shopping Mall in public areas.
2021	Prodia Semarang. Façade thermal study.
2021	Bidex Apartment Tower, Bintaro – Jakarta. Computational Fluid Dynamic simulations – Wind pattern analysis.
2020	Stadion Mattoangin, Makassar. <i>Green Building Specialist, Special lighting, Architectural Acoustics.</i>
2020	Rumah Pondok Indah, Jakarta. <i>Thermal and Energy simulation specialist, Microclimate analyst.</i> Computational Fluid Dynamic (CFD) Analysis.

2020	Grand Mosque Surakarta, Surakarta, <i>Special lighting and Architectural Acoustics Consultant.</i>
2020	T4 (Terminal 4) Soekarno Hatta International Airport, Jakarta. <i>Thermal and Energy Simulation Specialist; Green Building specialist.</i>
2020	Indonesia Financial Center Office Tower @ Sudirman, Jakarta. <i>Thermal and Energy Simulation Specialist; Green Building specialist.</i>
2020	Maritime Tower. <i>Special Lighting Designer</i> for façade, crown, lobby, landscape.
2020	Duqm, Refinery Housing and commercial compound, Oman. Thermal Simulation, Wind Analysis, Special lighting design.
2019	Taqqa Fish Market, Salalah, Oman. <i>Thermal simulation specialist</i>
2019	Mandiri Office Tower @ Bumi Serpong Damai. <i>Energy and Thermal Simulation Specialist. Green Building Specialist.</i>
2019	9 faculty buildings @ Universitas Gadjah Mada, Yogyakarta. <i>Green Building Specialist</i>
2019	BRI Office Tower @ Gatot Subroto, Jakarta. <i>Green Building Specialist.</i>
2018	New Yogyakarta International Airport – – <i>Thermal simulation specialist and Green Building Specialist</i>
2018	Renovation and retrofitting Bakrie Office Tower 2 (19 floors). <i>Architect, Special lighting Designer.</i>
2018	Telkom Sigma office Tower @ BSD. Architecture, Lighting and Green Design. <i>Principal Architect and Lighting designer</i>
2018	Grand Sungkono Lagoon Apartment Tower 3, Special Lighting consultant for interior and exterior, <i>Principal lighting designer.</i>
2018	Pesona Mall @ Depok. Interior and exterior special lighting. <i>Principal Lighting Designer.</i>
2018	Grand Sungkono Lagoon Apartment Tower 3, Surabaya. <i>Green Building Specialist, Thermal and Energy Simulation Specialist</i>
2017	Grand Alton Apartment, Tower 1,2,3, Semarang. <i>Green Building Specialist, Thermal and Energy Simulation Specialist</i>
2017	Bandara Kulo Progo, <i>Glazing and façade thermal and daylight performance simulations.</i>

- 2017      Salalah Grand Mall, Oman. Special lighting for facades, landscapes and interior. *Principal Lighting Designer.*
- 2017      Arkadia Tower (proposal), Jakarta. Lighting design for façade, tower crown, landscape, drop off area and lobby. *Principal Lighting Designer.*
- 2017      Agarwood Resort Hotel, Salalah, Oman. Façade lighting for Hotel, Apartment, Villa, Chalet; Pool and landscape lighting. Sport lighting *Principal Lighting Designer.*
- 2017      BPJS Tower @ Kuningan, Jakarta. Lighting design for façade, tower crown, landscape, drop off area and lobby. *Principal Lighting Designer.*
- 2016      Gran Sungkono Lagoon Apartment, Tower Caspian and Mall; *Building Energy and Thermal simulation and analyst. Green Building Specialist.*
- 2016      BPJS Tower, Jakarta. *Building energy simulation specialist, green consultant.*
- 2016      BNI Tower @ Pejompongan – Jakarta. *Building energy simulation specialist, Green Building Specialist*
- 2016      Grand Dharmahusada Lagoon Apartment, Surabaya. *Energy simulation specialist, Green Building Specialist.*
- 2015      Salalah Grand Mall @ Salalah, Oman. *Building thermal & Energy analyst.*
- 2015      RS. Panti Rapih, Yogyakarta. *Thermal & Energy simulation specialist.*
- 2015      Grand Dharmahusada Apartment, Surabaya. *Thermal & Energy simulation specialist. Green Building Specialist.*
- 2015      BPJS Tower, Kuningan, Jakarta. *Building Energy and thermal simulation specialist.*
- 2015      Training Center UIN, Jakarta. *Principal Arhcitect, Building simulation specialist.*
- 2015      Toto Office Tower @ Slipi, Jakarta. *Green Building Specialist, Building energy simulation specialist*
- 2015      Design and Retrofitting Kementerian Hukum dan HAM, Jakarta. *Green consultant, energy simulation specialist*

- 2015 Sopo Del Office & Hotel Tower @ Mega Kuningan Jakarta. *Green Building Specialist, Building Energy simulation Specialist.*
- 2014 Apartment Building, Tilal, Oman. Building Thermal & Energy analyst.
- 2014 Menara Lemhanas, Jakarta. *Building Thermal & Energy simulation specialist.*
- 2014 Bosowa International School, Makasar. *Senior Architect*
- 2014 Bosowa Budget Hotel, Makasar. *Senior Architect.*
- 2014 Office Tower @ Cawang, Jakarta. *Partner Architect, Building & Thermal energy simulation specialist/green consultant. GreenSHIP certification goal.*
- 2014 Grand Kamala Lagoon Apartment. *Building Thermal and Energy simulation specialist. GreenSHIP certificated.*
- 2014 Grand Sungkono Lagoon Apartment. *Building Thermal and Energy Simulation Specialist. GreenSHIP certificated.*
- 2013 National Development Bank. Timor Leste. *Building Thermal Simulation Specialist. GreenSHIP Gold Certification goal.*
- 2013 BNPB Head Office. *Building Thermal and Energy Simulation Specialist*
- 2013 Komisi Pemberantasan Korupsi Office, Jakarta, *Green consultant and Building Energy Analyst.*
- 2013 Ministry of Public Work Office, Dili, Timor Leste. *Green consultant and Building Energy Analyst. GreenSHIP Gold certification goal.*
- 2013 Krakatau Steel "Energy Solution Office, Cilegon. *Principal Architect, Building Energy Analyst. GreenSHIP certification goal.*
- 2012 Ministry of Marine Affairs and Fisheries Office Tower. *Principal Architect, Building Thermal & Energy Analyst. GreenSHIP Gold certified.*
- 2012 Review Master Plan Kampus Universitas Islam Negeri, Syarif Hidayatullah, Jakarta. *Principal Architect.*
- 2012 Masjid Agung Kabupaten Fak-fak, Papua Barat. *Principal Architect.*
- 2012 Zero Energy Building, Student Center, Univ, Bakrie, Bogor. *Building Thermal & Energy Analyst.*

- 2011 Master Plan Politeknik Bangka Belitung, Pangkal Pinang. *Partner Architect.*
- 2011 Master Plan Politeknik Fak fak, Papua Barat. *Principal Architect/Master planner.*
- 2011 PT. Dahana Office, Subang. *Building energy analyst, "Green" consultant.* GBCI's Platinum Greenship certified.
- 2011 Sopodel Tower @ Mega Kuningan, Jakarta. *Building thermal & Energy Analyst.* Greenship Platinum certification goal.
- 2011 Bank Kaltim Branch office. *Principal Architect.*
- 2011 Pan Brothers office park, Boyolali. *Principal Architect, Building Thermal & Energy analyst.* Greenship Platinum certification goal.
- 2011 Jasa Marga Head Office. Jakarta. *Principal Architect. Building Energy Analyst.*
- 2011 Water front development. Pekanbaru. *Urban designer.*
- 2011 Urban park and water front development. Bengkalis, Riau. *Urban Designer.*
- 2011 Kabupaten Lingga waterfront development. *Urban Designer.*
- 2010 Water front development (Urban Design Guidelines - RTBL), Indragiri Hilir, Riau. *Urban Designer.*
- 2010 Extension of Pemda DKI & DPRD Head Offices, Jakarta. *Building Energy Analyst.*
- 2010 Ministry of Public Works and Housing Main Office Tower Head. *Partner Architect, Building Thermal & Energy Analyst.* Platinum certified Greenship. Winner 2014 ASEAN Energy Awards for Energy Efficient new Building. Winner 2016 ASEAN Energy Awards for Large Green Building.
- 2010 Renovation and Extension of Lemigas office and laboratory buildings. *Building Thermal & Energy Analyst.*
- 2010 The Terrace Condotel, Pecatu, Bali. *Building Energy Analyst, "Green" Consultant.*
- 2010 Waterboom, Entertainment Park, Bengkalis Riau. *Architect.*
- 2010 Politechnic Lamandau, Central Kalimantan. *Architect.*
- 2010 Faculty of Social and Politics, Universitas Islam Negeri, Jakarta. *Principal Architect, Building Energy Analyst.*

- 2010 Main Library – Extension, stage 2. Gadjah Mada University, Yogyakarta. *Principal Architect. Building Energy Analyst. Green Consultant.*
- 2010 Indoor Stadium, Kabupaten Siak, Riau. *Principal Architect.*
- 2009 Interior Renovation, Kementrian BUMN, Jakarta. *Architect/ Interior Designer.*
- 2009 Master plan Sport center, West Papua. *Principal Architect.*
- 2009 Governor and vice Governor state residences, west papua, Architect
- 2009 Austrian Embassy, Jakarta. *Local partner Architect.*
- 2009 Ministry of Public Works Head Quater, Jakarta. *Building Energy Analyst, partner Architect.* GBCI's Greenship Platinum certified
- 2008 Main Library – Extension, stage 1, Gadjah Mada Univeristy, *Principal Architect. Building Thermal and Energy Analyst.*
- 2008 Faculty of Economics – Extension, Gadjah Mada Univeristy. *Principal Architect*
- 2008 Master Plan, Government office complex, Manokwari, Papua, *Architect*
- 2008 Stadium complex, Kuansing, Riau, *Principal Architect*
- 2008 High School complex, Kuansing, Riau, *Principal Architect*
- 2007 Grand Mosque, Pelelawan, Riau, *Principal Architect*
- 2007 Traditional Market, Kampar, Riau, *Architect*
- 2007 Traditional Market, Kuansing, Riau, *Architect*
- 2007 Kampar, Riau, River front development, *Urban designer.*
- 2007 Student Dormitory – Gadjah Mada Univeristy, Yogyakarta. *Principal Architect*
- 2007 International Relation Office – Gadjah Mada Univeristy – *Interior designer*
- 2006 Dharma Putra International House – Gadjah Mada Univ. *Architect/Interior Designer.*



- 2006 Auditorium and Lobby design, Faculty of Law – Gadjah Mada Univ.  
*Architect/Interior Designer.*
- 2006 Sanggeng Market Place & Sawaibu waterfront development.  
*Architect*
- 2006 Honai design prototype, Yahukimo, Papua  
2006 Presidential Palace (Gedung Agung) Flood lighting, Yogyakarta.  
Lighting Designer
- 2005 Green Park Residences & Townhouses, Estate/Housing Design  
comprising 480 units, Yogyakarta. Master Planner, Architect
- 2004 Manokwari Waterfront Development-Urban Design Project,  
Manokwari. *Urban Designer*
- 2004 The Volcano, Bar & Café, Jogja Plaza Hotel, Yogyakarta. *Interior &  
Lighting Designer*
- 2004 Jogja Plaza, Spa & Health Club, Yogyakarta. *Interior Designer*
- 2004 Audio Visual Facilities in Borobudur, *Principal Architect & Lighting  
Designer*
- 2004 Kawasan Marunda, Jakarta. *Urban Designer*  
2004 Kawasan Kebon Mlati, Jakarta. *Urban Designer*  
2003 Kawasan Jatinegara, Jakarta. *Urban Designer*
- 2003 Art Market, Bantul. *Architect*  
2002 Football Stadium and shopping arcade, Bantul. *Principal Architect*
- 2000 Pre-Design Science Center, Palembang. *Architect*
- 1998 D3 Economics, The University of Gadjah Mada, Yogyakarta.  
*Architect*