

Ng Wykeith
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Personal Statement

Life is a learning journey, I strive to be forward looking connecting the ‘dots’ with each step forward.

Personal Interests

Urbanism – *Urbanization in Asia, Urban redevelopment, Transit Oriented Developments TODs, Future-ready Infrastructure, Knowledge Economies*

Architecture - *detailing (façade designs) , data driven design*

Sustainability - *renewable, passive energy designs, Urban / Building Integrated Photovoltaic BIPV systems , Eco-developments*

Computing – *Machine Learning , Neural Networks , Algorithms, Geographical Information Systems GIS , Big Database scalability*

Business – *Product Branding, Positioning, market research, A/B testing*

Academic Qualifications

Master in Architecture, Graduated May 2009
National University of Singapore

Bachelor of Arts in Architecture (Honours) Graduated 2006,
National University of Singapore
Honours Second Class Lower

Student Exchange Program (11 months), 2005,
University of Melbourne

Summary of Employment

Senior Associate – Design and Feasibility Studies (Ministry of Finance – Centre for Public Project Management) Feb 2015 - Present (Full Time) Responsibilities include - Design review of agencies’ DPC projects - Provide feasibility study services - Research on LifeCycle Costing - Assist in the running of department seminars & workshops			
1	Project Feasibility Study	New Intergrated Firestation and NPC	Architectural Concept Massing
		Size: 8000 sqm	Cost: \$46 mil
	Responsibilities - Gather user requirements - Propose various options for landtake optimization - Produce Concept massing and plans - Study various landscape replacement options and impact on project - Generate Schedule of Areas for costing		
2	Project Feasibility Study	New Divisional Police Headquarters	Architectural Concept Massing
		Size: 54,000 sqm	Cost: \$230 mil
	Responsibilities - Gather user requirements - Consultation with Authorities (URA/LTA/PUB) - Study security and vehicular clearance with inputs from stakeholders - Produce concept massing and plans - Generate Schedule of Areas for costing		
3	Project Feasibility Study	New Animal Quarantine Station	Architectural Concept Massing
		Size:3200 sqm	Cost:\$7 mil
	Responsibilities - Gather user requirements - Assist agency in URA’s Site selection process - Produce conceptual massing options - Generate Schedule of Areas for costing		
4	Masterplanning Study	Next Generation Border Immigration Facilities	Strategic Masterplan Report
		Site:68ha	Cost: \$1.2bil
	Responsibilities - Interview project stakeholders and review user requirements - Propose future proofing / risk management scenarios - Coordination with external agency stakeholders (URA/HDB/LTA) - Recommend various landtake options based on strengths and weaknesses		

Manager – Master Planning
(Sports Singapore , Sports Facilities Group)
Sep 2013 – Jan 2015 (Full Time)
Responsibilities include
- Writing Approval Papers
- Crafting of Tender Contracts and Specifications
- GIS Feasibility Studies / Selection of Sites for Sports Facilities under Sports Facilities Master Plan

5	Project Concept Study	New Punggol Regional Sports Centre	Architectural Concept Proposal
		Size: 36500 sqm	Cost:\$200mil
	Responsibilities - Gather user requirements - Consult external Authorities/Stakeholders (URA/HDB/LTA) - Produce Concept massing for rendering of Perspective - Produce design brief for calling of MDT consultants		

6	Project Concept Study	A & A to Ang Mo Kio Swimming Complex	Architectural Concept Proposal
		Size: 6000 sqm	Cost:\$17mil
	Responsibilities - Consult external Authorities/Stakeholders (URA/HDB/LTA) - Design new typology for concept of wet playfield - Brief and Solicit feedback from Grassroots committees - Produce design brief for calling of MDT consultants		

7	Facilities planning	Sports Facilities Masterplan 2030	Masterplan
		Na	Cost: \$4.3bil
	Responsibilities - Analyze sports participation surveys / focus group discussions - Study catchment and reach of sports facilities (Tennis courts) - Recommend new facilities to meet gaps in Facilities provision		

Architect - Town Planning
(HDB , Research and Planning Group)
Oct 2011 – Sep 201 (Full Time)
Responsibilities include
- Town Coordinator handling public queries and coordination work with external agencies
- Planning for sufficient facilities to be provided for town under charge
- Submission of planning approvals to ensure supply of land to meet HDB’s Building Program quantum

8	Project Feasibility Study	Yishun Integrated Bus Interchange	Government Land sales
		Size:123,000 sqm Site: 4.11ha	Na
	Responsibilities - Coordination with external authorities/stakeholders (URA/LTA/PUB/DSTA) - Study various bus interchange configurations in order to optimize landtake - Propose alternative configurations with various achievable plot ratios		

	- Produce urban design guidelines for GLS tender documents		
9	Physical planning	HDB Punggol North Town plan	Masterplan
		Size:422ha 96,000 Dwellings	Na
	Responsibilities - Coordination with external authorities/stakeholders (URA/LTA/PUB/NPARKS) - Propose massing configurations to meet required housing quantum projections - Produce urban design guidelines for calling of MDT consultants		
10	Physical planning	HDB Tampines North Town plan	Masterplan
		Site: 240ha 25,000 Dwellings	Na
	Responsibilities - Coordination with external authorities/stakeholders (URA/LTA/PUB/NPARKS) - Propose massing configurations to meet required dwelling unit projections & GPR - Produce urban design guidelines for calling of MDT consultants		
Architectural Executive (DP Architects Pte Ltd) Jun 2009 - June 2011 (Full Time) Responsibilities include - Revit BIM Document Controller for Sportshub Development - Component Lead for SSC Office Sportshub Development - Project Coordinator for S’pore University of Technology & Design competition (won) - Team Leader for BCA BIM skill competition (won)			
11	Detailed Design Documentation	Singapore Sportshub Development	Architecture Detailed Design
		Site: 35 ha	Cost: \$1.33 bil
	Responsibilities - Building services coordination with multi-disciplinary team (M&E/C&S/Ldscape) - Detailed design of cubicle layout & floor plan for Sports Singapore office - Conduct facade design studies to optimize modularity and the efficient use of materials		
12	Concept Proposal	Singapore University of Technology and Design	Architectural Concept Competition
		Size: 100,600 sqm	Cost: \$229 mil
	Responsibilities - Coordination with overseas design Architect & Local MDT team - Ensure competition user-requirements are met in the design - Produce competition printed panels		
Urban Designer (Surbana International Consultants, Surbana Urban Planning Group) Aug 2006- May 2008 (Full Time)			

Responsibilities include			
- Preparation of Tables and Figures for Planning Reports			
- Drafting of landuse plans			
- Urban Design Massing for City Downtowns			
13	Physical planning	Al Wakra / Al Khor Qatar	Masterplan
		Al Wakra: 2483 sqkm Al Khor: 1552 sqkm	Na
	Responsibilities		
- Drafting of road/landuse infrastructure plans in GIS			
- Massing visualization of downtown building form			
- Preparation of urban design guidelines for report			
14	Concept Proposal	Kimdo Royal Hotel Complex	Architectural Concept Competition
		Size: 51,500 sqm	Cost: \$55mil
	Responsibilities		
- Building service coordination with multi-disciplinary team			
- Propose hotel room layout			
- Liaise with perspectivist to ensure design intent is preserved in rendering			
Research Analyst (NUS, Dr Stephen Wittkopf) Nov 2003- Jan 2004 , Oct 2004 – Feb 2005 (Temp work)			
- Research on Building Integrated Photovoltaic (BIPV) strategies for urban high rise housing			
- Collected, collated and analyzsed data from PV experiment			
- Procured and set up equipment for research experiments			
- Ran computational energy simulations for theoretical BIPV designs			
- Managed 2 batches of polytechnic interns working with Revit and EON studio softwares			
- Research on new techniques for daylight simulation & analysis using photon mapping			