

# Praepetch Wongchanglor (BB)

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## Profile

- Expected graduate Master degree student in illumination design
- Have good understanding in human vision and physic of light.
- Experience in lighting design for exterior and interior complied with Australian standard and NCCA
- Experience in lighting consultation based on mathematical data (colour rendering, maintenance, and efficiency)

## Education

### **BACHELOR OF ENGINEERING | 2013 - 2015**

- Twinning Engineering Program(TEP), Thammasat University, Thailand
- Major: Electrical Engineering
- Related coursework: Electrical circuit, Electronic circuit, Analog and Digital circuit, Signal, Microprocessor, Electromagnetic engineering, and Electrical Machine.

### **BACHELOR OF ENGINEERING (HONOURS) | 2015 - 2017**

- School of Electrical engineering and telecommunications, University of New South Wales
- Major: Electrical Engineering
- Related coursework: Control system, Real-time instrumentation, Digital signal processing, and Electrical safety.

### **MASTER OF ARCHITECTURAL SCIENCE | EXPECTED JULY 2019**

- Illumination design, University of Sydney
- Related coursework: Light and vision, Photometry and colorimetry, Subjective analysis in lighting design, Lighting technologies, Lighting design software, Object design(Material and light), and Practice of lighting design.

## Experience

### **INDUSTRIAL TRAINING | ELECTRICITY GENERATING AUTHORITY OF THAILAND | NOV 2015 – FEB 2016**

- Working as a part of the Electrical engineer and control system department (machine and equipment division), responsible for compliance of contract and criteria for thermal powerplant from machine specification to installations including site inspections.

### **T.GALLERIA FAÇADE LIGHTING DESIGN | UNIVERSITY ASSIGNMENT | 2019**

- Individual lighting design project for T.Galleria, Sydney. Façade lighting design emphasizes the architectural elements of the building. The design complied with NCC section J6 and J8 and include budget estimation, lighting schedule, and lighting details.

### **GATEWAY INTERIOR LIGHTING DESIGN | UNVERSITY ASSIGNMENT | 2019**

- Group project, interior lighting design and development plan for GATEWAY, Sydney. Scope area including passage(Pitt St. entry), main lobby, elevator zone, and main entry(Jessie St. entry). Lighting design for high ceiling area with black marble floor complied with Australian standard (such as AS1680 and NCC section J6 and J8), verified via AGI32. The project including site investigations, demolition plan, emergency lighting, lighting design plan, lighting schedule, lighting scheme, and budget estimations.

## **LUMINAIRE DESIGN | UNIVERSITY ASSIGNMENT | 2019**

- Luminaire designed inspired by botanic seed. The complete object made with Tyvek, veneer, and various recycling materials, operate with two modes controlled by combinations of PIR (motion) sensor and Arduino board. Standby mode provides randomly blinking light when the sensor detects motions it will activate the dominant light bulb(MR16) which provides up light for the area.

## **Technical Skills**

### **AGI32**

- Lighting design and calculation
- Daylight calculation
- Luminaire channel and scene
- Raytraced (rendering)
- Custom luminaires and objects
- Light power density (LPD) calculation for NCC section J6

### **DIALUX**

- Lighting design and calculation
- rendering

### **MICROSOFT OFFICE**

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint

### **ADOBE PHOTOSHOP**

- Image editing and illustration

### **PROCREATE**

- Image editing and illustration (via iPad)

### **RHINOCEROS**

- 3D modeling

### **SKETCHUP**

- 3D modeling

### **MATLAB**

- Control system coding and calculations

### **ARDUINO**

- Control system coding

### **FABRICATION**

- Using tool and machine with Timber
- Using tool and machine with Metal
- Laser cutting
- Electronic soldering