

PORTFOLIO

**Submitted by
Mr. Pannawit Samaae**

PREFACE

This portfolio was created in order to introduce myself and provide details about my work experience for 3 years in Mechanical Engineer position. It also contains a number of certificates regarding attending training course with relevant association.

In addition, I would like to use this opportunity to express my gratitude to my parents, teachers, friends and colleague for having provided guidance and support in gathering all significant documents to create this portfolio, which I believe to be truly valuable to apply job in the future.

Pannawit Samaae

CONTENTS

Personal Information	3
Working Experience	4
Training	9
Annex A	
Photos	10
Annex B	
Certificates	20

PERSONAL INFORMATION



Personal Information

First name : Pannawit Last name : Samaae

Date of birth : 5 May 1996 Age : 25 Gender : Male

Height : 173 cm Weight : 60 kg

Nationality : Thai Religion : Islam Status : Single

Military Service : Exempted

Address : 512 Phetchaburi Road, Thanon Petchaburi, Ratchathewi, Bangkok 10400

Mobile : +66 95 086 8800

Email : Pannawit.flan@gmail.com

Education

Degree : Bachelor of Engineering

Major : Mechanical Engineering

University Name : Srinakharinwirot University

Year of Graduation : 2018 GPA. : 2.85

Work

Position : Mechanical Engineer

Company : Thai Nakano Company Limited

Ability/Skill

Language : English TOEIC Score 585

Program : MS Office, AutoCAD and Carrier HAP

WORKING EXPERIENCE

Year	No.	Job Duty	Job Description
2019	1	Perpare mechanical documents, calculation and design drawings.	<p>Project : Siam Mizusho New Factory</p> <p>Location : Sinsakhon Industrial Estate, Samut Sakhon</p> <p>Area : 2,500 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p>
	2	Perpare mechanical documents, calculation and design drawings.	<p>Project : DSST New Factory</p> <p>Location : Pinthong 5 Industrial Estate, Chonburi</p> <p>Area : 5,500 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p>
	3	Perpare mechanical documents, calculation and design drawings.	<p>Project : ASRB New Factory (BG88 & BG89)</p> <p>Location : Amata City Chonburi</p> <p>Area : 5,200 & 4,700 sq.m.</p> <p>ME Work : Plumbing, Fire protection and Ventilation system</p>
	4	Perpare mechanical documents, calculation and design drawings.	<p>Project : Yagishita New Factory</p> <p>Location : Asia Industrial Estate, Samutprakarn</p> <p>Area : 1,700 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p>

Year	No.	Job Duty	Job Description
2019	5	Perpare mechanical documents, calculation and design drawings.	<p>Project : Yellow Wood 6 New Warehouse</p> <p>Location : Bangkok Free Trade Zone, Samutprakarn</p> <p>Area : 20,800 sq.m.</p> <p>ME Work : Plumbing, Fire protection (Sprinkler K 11.2 EC Type w/Fire pump 1,000 GPM non listed) and Ventilation system</p>
	6	Perpare mechanical documents, calculation and design drawings.	<p>Project : Silver Oak (LEED v4.1 Certified)</p> <p>Location : Bangplee, Samutprakarn</p> <p>Area : 75,000 sq.m. (A/C = 1,200 sq.m.)</p> <p>ME Work : HVAC (VRF System comply with ASHRAE 90.1-2016 and Ventilation system comply with ASHRAE 62.1 & 90.1-2016)</p>
	7	Perpare mechanical documents, calculation and design drawings.	<p>Project : ASRB New Factory (BG90 & BG91)</p> <p>Location : Amata City Chonburi</p> <p>Area : 5,200 & 4,700 sq.m.</p> <p>ME Work : Plumbing, Fire protection and Ventilation system</p>

Year	No.	Job Duty	Job Description
2020	1	Perpare mechanical documents, calculation and design drawings.	<p>Project : ASRB New Factory</p> <p>Location : Gateway Industrial Estate, Chachoengsao</p> <p>Area : 5,200 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p>
	2	Perpare mechanical documents, calculation and design drawings.	<p>Project : Amata Summit Warehouse & Distribution Center (LEED v4.1 Gold)</p> <p>Location : Bangna-Trad KM.9</p> <p>Area : 5,900 sq.m.</p> <p>ME Work : Plumbing, Fire protection (Sprinkler K 22.4 ESFR Type w/Fire Pump 2,000 GPM non listed) and HVAC (Split type comply with ASHRAE 90.1-2016 and Ventilation system comply with ASHRAE 62.1 & 90.1-2016)</p> <p>Status : <i>Under Construction</i></p>
	3	Perpare mechanical documents, calculation and design drawings.	<p>Project : Thai Tsuzuki New Factory Ph.2</p> <p>Location : Amata City Chonburi</p> <p>Area : 7,700 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p> <p>Status : <i>Under Construction</i></p>

Year	No.	Job Duty	Job Description
2020	4	Perpare mechanical documents, calculation and design drawings.	<p>Project : H-ONE Factory Extension Project</p> <p>Location : Pinthong Industrial Estate, Chonburi</p> <p>Area : 2,700 sq.m.</p> <p>ME Work : Plumbing, Fire protection, HVAC and Compressed air system</p>
	5	Perpare mechanical documents, calculation and design drawings.	<p>Project : Ziga New Warehouse</p> <p>Location : Greenwork Industrial, Samutprakarn</p> <p>Area : 8,500 sq.m.</p> <p>ME Work : Plumbing, Fire protection and Ventilation System</p>
2021	1	Perpare mechanical documents, calculation and design drawings.	<p>Project : Roland Extension Warehouse Project</p> <p>Location : Sinsakhon Industrial Estate, Samut Sakhon</p> <p>Area : 3,000 sq.m.</p> <p>ME Work : Plumbing, Fire protection and HVAC System</p> <p>Status : <i>Under Construction</i></p>
	2	Perpare mechanical documents, calculation and design drawings.	<p>Project : Nadaka Expansion Factory</p> <p>Location : Bangpakong, C</p> <p>Area : 1,000 sq.m.</p> <p>ME Work : Plumbing, Fire protection and Ventilation System</p> <p>Status : <i>Under Construction</i></p>

Year	No.	Job Duty	Job Description
2021	3	Perpare mechanical documents, calculation and design drawings.	<p>Project : M Project Warehouse</p> <p>Location : Bang bo, Samutprakarn</p> <p>Area : 8,500 sq.m.</p> <p>ME Work : Plumbing, Fire protection (Sprinkler K 16.8 ESFR Type w/Fire Pump 2,000 GPM UL/FM) and HVAC (Air Cooled Chiller 220 Ton Run 2 sets Stand by 1 set)</p> <p>Status : <i>Submitting</i></p>
	4	Perpare mechanical documents, calculation and design drawings.	<p>Project : SISB (Nonthaburi)</p> <p>Location : Nonthaburi</p> <p>Area : 9,900 sq.m.(Bldg. A), 4,200 sq.m.(Bldg. B), 3,300 sq.m.(Bldg. C), 240 sq.m.(Bldg. E), 9,500 sq.m.(Bldg. F)</p> <p>ME Work : Plumbing, Fire protection and HVAC (VRV/VRF System)</p> <p>Status : <i>Submitting</i></p>

TRAINING

Year	No.	Course's name	Organized by
2019	1	35 th Design of Piping System for Building	The Engineering Institute of Thailand (EIT)
	2	36 th Design and Installation of Fire Protection system (Wet pipe)	The Engineering Institute of Thailand (EIT)
	3	3 rd Hydraulic Calculation Method for Fire Protection System	The Engineering Institute of Thailand (EIT)
	4	7/2 nd Associate Engineer Training	Air Conditioning Engineering Association of Thailand (ACAT) Exam result : Passed
	5	Energy Conservation Auditor 2019	Department of Alternative Energy Development and Efficiency, Ministry of Energy Exam result : Passed

ANNEX A

PHOTOS



FIG.1 Production zone (Air condition space) at Siam Mizusho New Factory



FIG.2 Air compressor room (Main equipment by owner) at Siam Mizusho New Factory



FIG.3 External area (Back) at Siam Mizusho New Factory



FIG.4 External area (Front) at Yagishita New Factory



FIG.5 Production zone (Air condition space) at Yagishita New Factory



FIG.6 Bird eye view at Yellow Wood 6 New Warehouse



FIG.7 Header No.3 at Yellow Wood 6 New Warehouse



FIG.8 Horizontal split case fire pump at Yellow Wood 6 New Warehouse



FIG.9 Sprinkler K11.2 EC type at Yellow Wood 6 New Warehouse



FIG.10 CDU area (Inbound office 1) at Silver Oak



FIG.11 External area (Front) at Silver Oak

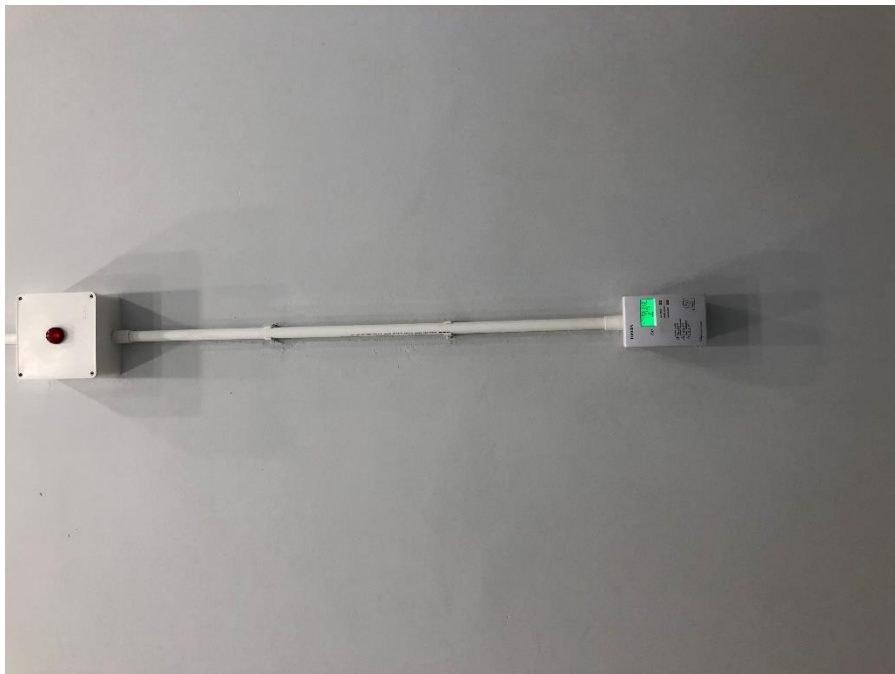


FIG.12 CO2 Sensor for high occupied density room at Silver Oak



FIG.13 Office area (Air condition space) at ASRB New Factory



FIG.14 CDU area (Roof slab) at ASRB New Factory



FIG.15 Header at Amata Summit Warehouse & Distribution Center



FIG.16 Vertical turbine fire pump at Amata Summit Warehouse & Distribution Center



FIG.17 Warehouse area (Air condition space) at Amata Summit Warehouse & Distribution Center 1

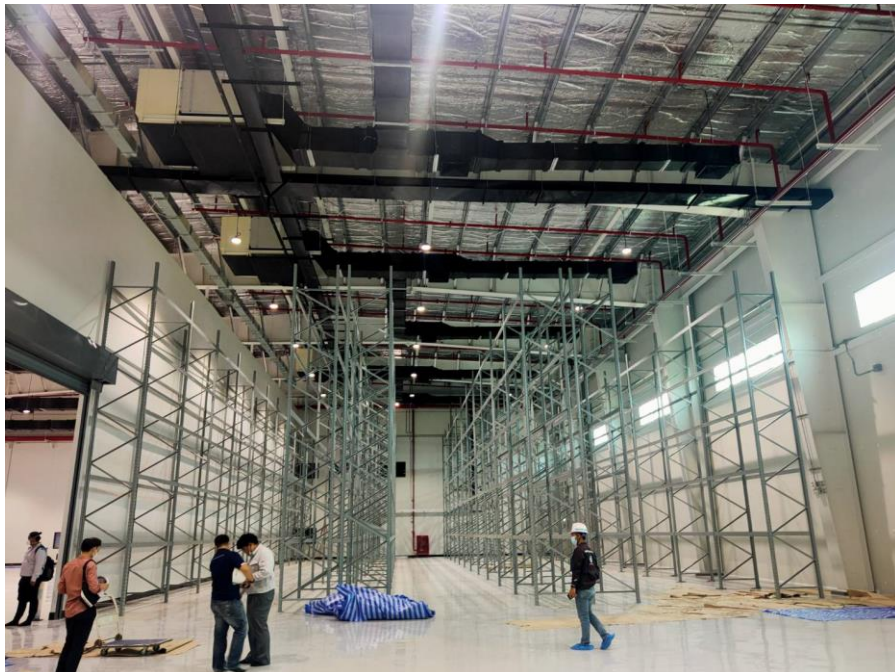


FIG.18 Warehouse area (Air condition space) at Amata Summit Warehouse & Distribution Center 2

LEED v4.1 BD+C: Warehouses and Distribution Centers		Project Name: Silver Oak	
Project Checklist		Date: 5 Nov 2019	
Y	N		
1		Integrative Process	1
2 0 15 Location and Transportation 16			
		LEED for Neighborhood Development Location	16
		Sensitive Land Protection	1
		High Priority Site	2
		Surrounding Density and Diverse Uses	5
		Access to Quality Transit	5
		Bicycle Facilities	1
		Reduced Parking Footprint	1
		Electric Vehicles	1
2 0 8 Sustainable Sites 10			
		Construction Activity Pollution Prevention	Required
		Site Assessment	1
		Protect or Restore Habitat	2
		Open Space	1
		Resource Management	3
		Heat Island Reduction	2
		Light Pollution Reduction	1
9 0 2 Water Efficiency 11			
		Outdoor Water Use Reduction	Required
		Indoor Water Use Reduction	Required
		Building-Level Water Metering	2
		Outdoor Water Use Reduction	2
		Indoor Water Use Reduction	6
		Cooling Tower Water Use	2
		Water Metering	1
16 0 17 Energy and Atmosphere 33			
		Fundamental Commissioning and Verification	Required
		Minimum Energy Performance	Required
		Building-Level Energy Metering	Required
		Fundamental Refrigerant Management	Required
		Enhanced Commissioning	6
		Optimize Energy Performance	10
		Advanced Energy Metering	1
		Grid Harmonization	2
		Renewable Energy	8
		Enhanced Refrigerant Management	1
2 0 11 Materials and Resources 13			
		Storage and Collection of Recyclables	Required
		Construction and Demolition Waste Management Planning	Required
		Building Life-Cycle Impact Reduction	5
		Building Product Disclosure and Optimization - Environmental Products	2
		Building Product Disclosure and Optimization - Sourcing of F	2
		Building Product Disclosure and Optimization - Material Inp	2
		Construction and Demolition Waste Management	2
5 0 11 Indoor Environmental Quality 16			
		Minimum Indoor Air Quality Performance	Required
		Environmental Tobacco Smoke Control	Required
		Enhanced Indoor Air Quality Strategies	2
		Low-Emitting Materials	3
		Construction Indoor Air Quality Management Plan	1
		Indoor Air Quality Assessment	2
		Thermal Comfort	1
		Interior Lighting	2
		Daylight	3
		Quality View	1
		Acoustic Performance	1
5 0 1 Innovation 6			
		Construction	5
		LEED Accredited Professional	1
4 0 0 Regional Priority 4			
		Regional Priority: Outdoor Water Use Reduction	1
		Regional Priority: Indoor Water Use Reduction	1
		Regional Priority: Optimize Energy Performance	1
		Regional Priority: Renewable Energy	1
45 0 55 TOTALS		Possible Points: 110	
Certified: 46 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110			

FIG.19 LEED's Score Card at Silver Oak

LEED v4.1 BD+C: Warehouses and Distribution Centers		Project Name: Amata Summit Warehouse & Distribution Center	
Project Checklist		Date:	
Y	N		
1		Integrative Process	1
2 0 14 Location and Transportation 16			
		LEED for Neighborhood Development Location	16
		Sensitive Land Protection	1
		High Priority Site	2
		Surrounding Density and Diverse Uses	5
		Access to Quality Transit	5
		Bicycle Facilities	1
		Reduced Parking Footprint	1
		Electric Vehicles	1
9 0 1 Sustainable Sites 10			
		Construction Activity Pollution Prevention	Required
		Site Assessment	1
		Protect or Restore Habitat	2
		Open Space	1
		Resource Management	3
		Heat Island Reduction	2
		Light Pollution Reduction	1
9 0 2 Water Efficiency 11			
		Outdoor Water Use Reduction	Required
		Indoor Water Use Reduction	Required
		Building-Level Water Metering	2
		Outdoor Water Use Reduction	2
		Indoor Water Use Reduction	6
		Cooling Tower Water Use	2
		Water Metering	1
19 0 3 Energy and Atmosphere 33			
		Fundamental Commissioning and Verification	Required
		Minimum Energy Performance	Required
		Building-Level Energy Metering	Required
		Fundamental Refrigerant Management	Required
		Enhanced Commissioning	6
		Optimize Energy Performance	10
		Advanced Energy Metering	1
		Grid Harmonization	2
		Renewable Energy	8
		Enhanced Refrigerant Management	1
2 0 9 Materials and Resources 13			
		Storage and Collection of Recyclables	Required
		Construction and Demolition Waste Management Planning	Required
		Building Life-Cycle Impact Reduction	5
		Building Product Disclosure and Optimization - Environmental Products	2
		Building Product Disclosure and Optimization - Sourcing of F	2
		Building Product Disclosure and Optimization - Material Inp	2
		Construction and Demolition Waste Management	2
8 0 7 Indoor Environmental Quality 16			
		Minimum Indoor Air Quality Performance	Required
		Environmental Tobacco Smoke Control	Required
		Enhanced Indoor Air Quality Strategies	2
		Low-Emitting Materials	3
		Construction Indoor Air Quality Management Plan	1
		Indoor Air Quality Assessment	2
		Thermal Comfort	1
		Interior Lighting	2
		Daylight	3
		Quality View	1
		Acoustic Performance	1
6 0 0 Innovation 6			
		Construction	5
		LEED Accredited Professional	1
4 0 0 Regional Priority 4			
		Regional Priority: Specific Credit	1
		Regional Priority: Specific Credit	1
		Regional Priority: Specific Credit	1
		Regional Priority: Specific Credit	1
61 2 36 TOTALS		Possible Points: 110	
10 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110			

FIG.20 LEED's Score Card at Amata Summit Warehouse & Distribution Center

ANNEX B

CERTIFICATES



FIG.1 35th Design of Piping System for Building Course



FIG.2 36th Design and Installation of Fire Protection system (Wet pipe) Course



FIG.3 3rd Hydraulic Calculation Method for Fire Protection System Course



FIG.4 7/2nd Associate Engineer Training Course

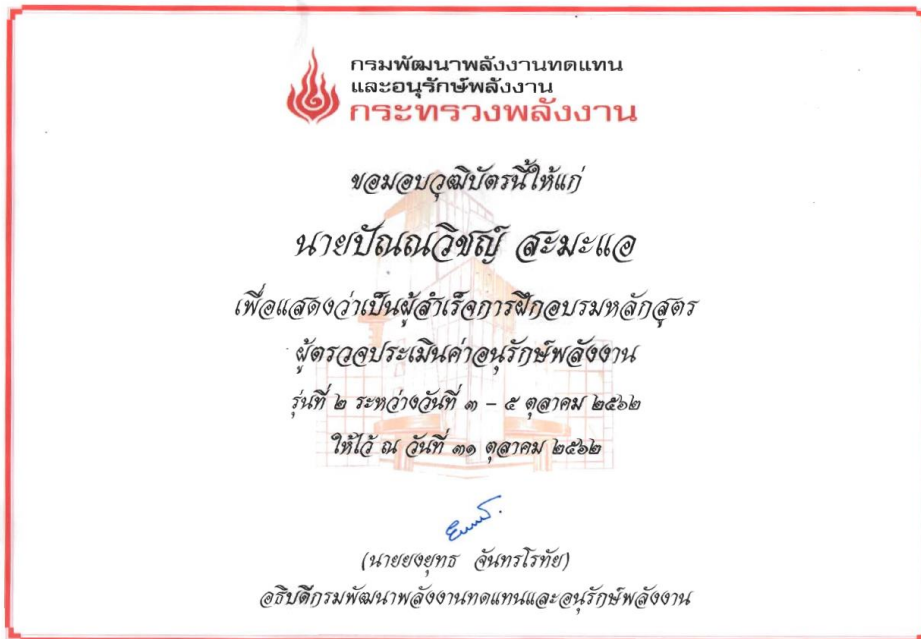


FIG.5 Energy Conservation Auditor 2019 Course

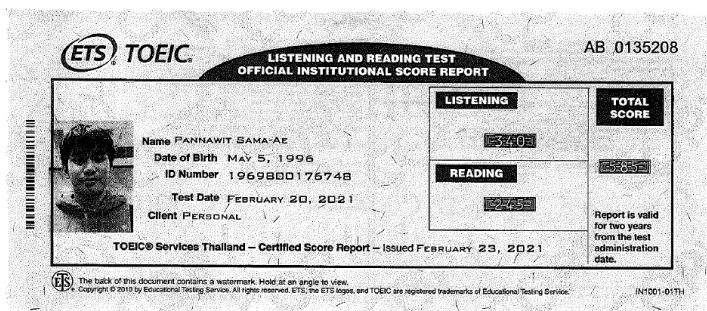


FIG.6 TOEIC's Score