



# Electrical Engineer

## **Personal Information**

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## **Current projects**

- T3 Project / Lenzing

## **Professional summary**

Electrical engineer with over ten years of experience in electrical engineering, procurement, construction and pre-commissioning work on petrochemical, refinery, power generation and offshore plant projects

Extensive experience in all aspects of electrical engineering work from design engineering drawing, basic calculation, engineering specifications, material requisition, technical bid evaluation, supplier document review, construction supervision, quality control management and pre-commissioning

## **Professional qualifications/registration(s)**

Bachelor of Engineering Degree in Electrical (Power) Engineering

## **Education**

Rajamangala University of Technology

## **Memberships/affiliations**

Member of Council of Engineers

## **Languages**

Native: Thai, Intermediate: English

## **Standard and Code**

Local and International Codes and Standards, Engineering Practices such as API, BS, EIT, IEC, IEEE, NEC, DEP, NFPA and related

## **Roles and Responsibility**

- Competent practitioner within the electrical discipline with conceptual, FEED, detail design within engineering procurement construction and commissioning project.

- Carry out electrical engineering work as required by electrical manager in accordance with the agreed project schedule.
- MTO and cost estimate for electrical equipment and bulk.
- Estimate engineering and construction man hours as per project schedule.
- Execute project design in line with the discipline design instructions, quality plan, technical work practices and procedures.
- Interface with other departments, clients, vendors, subcontractors and third party
- Control all aspects of engineering project, budget and project schedule
- Involvement in a typical project include
  - Electrical single line diagram
  - Electrical load schedule
  - Hazardous material schedule and classification
  - Equipment sizing calculation
  - Load flow analysis
  - Short circuit study
  - Illumination calculation
  - Grounding calculation
  - Solar farm design and calculation
  - Cable sizing calculation
  - Cable tray sizing calculation
  - Cable and drum schedule
  - Substation equipment layout
  - Power plan layout
  - Main cable routing layout
  - Grounding and lightning protection layout
  - Lighting and receptacle layout
  - Communication system
  - MTO
- Equipment specifications & data sheets
- Material requisitions (MR)
- Technical bid evaluations (TBE)
- Vendor drawings/documents review and vendor data incorporation
- Witness shop inspection and factory acceptance test (FAT)
- Provide field engineering assistance, inspections and checks to facilitate construction works
- Ensure field construction operations are fully supported by the timely supply of the latest approved for construction (AFC) drawings, specifications, procedures and method statements
- Provide technical assistance to ensure that all construction material, equipment and vendor packages are properly inspected on receipt, correctly maintained during storage and installed in accordance with required specifications (shop drawing and design change notice)
- The organisation, planning and control of supervision, labour and/or construction

- contractors within assigned areas of work
- Follow up electrical construction work on assigned projects sites to ensure correct interpretation of designs regarding installation
- Prepare inspection test plan and inspection test procedure for electrical system (ITP)
- Site inspection test and review test report
- To assist commissioning team for ensure the function test of communication and electrical system
- Site Acceptance Tests (SAT)
- Review inspection test package and correct system definition

### **Employment history**

#### **6. Wood PLC (Oct 2019 - Present).**

**Project:** T3 project  
**Client:** Lenzing (Thailand) Co.,Ltd  
**Position:** Electrical Engineer  
**Period:** Oct 2019 - Present  
**Scope of Work:** EPCm Contractor / Lyocell Plant

#### **5. Samsung Engineering (Thailand) Co., Ltd (Oct 2017 - Oct 2019)**

**Project:** Lotte Chemical Indonesia New Ethylene Plant (LINE) Project.  
**Client:** Lotte Chemical  
**Position:** Electrical Engineer  
**Period:** Apr 2019 - Oct 2019  
**Scope of Work:** EPCC Contract / New Ethylene Plant with 150kV Substation

**Project:** PTTLNG IPG project.  
**Client:** PTTLNG  
**Position:** Electrical Engineer  
**Period:** Oct 2017 - Apr 2019  
**Scope of Work:** EPCC Contract / In Plant Power Generation (Gas Turbine, ORC Technology and Floating Solar Array) with 115kV Substation

**Project:** PTTGC Propylene oxide project. (PO Project)  
**Client:** PTTGC  
**Position:** Electrical Engineer  
**Period:** Oct 2017 - Apr 2019  
**Scope of Work:** EPCC Contract / Propylene oxide plant (OSBL Scope) with 115kV Substation

#### **4. Amec Foster Wheeler (Thailand) Co., Ltd (Sep 2016 - Sep 2017).**

**Project:** Phase 4 process and interface engineering project  
**Client:** Ophir Thailand Limited  
**Position:** Electrical Design Engineer  
**Period:** Apr 2017 - Sep 2017  
**Scope of Work:** Engineering Contract / New wellhead platform

**Project:** Clean fuel Project (CFP)  
**Client:** Thai Oil Public Co., Ltd  
**Position:** Electrical Design Engineer  
**Period:** Sep 2016 - Apr 2017  
**Scope of Work:** FEED Contract / New Refinery Plant

### **3. PAE (Thailand) Company Limited (June 2016 - Sep 2016)**

**Project:** Raffinate and Toluene-Xylene to Gasoline Blendin Project.  
**Client:** IRPC Public Co., Ltd  
**Position:** Electrical Design Engineer  
**Period:** Jun 2016 - Sep 2016  
**Scope of Work:** EPCC Contract. / Transfer Pump Upgrade Capacity

### **2. CAZ (Thailand) Company Limited (Sep 2014 – Jun 2016)**

**Project:** The expansion of LPG facilities at khao bo ya LPG terminal project. (ELK Project)  
**Client:** PTT Public Co., Ltd  
**Position:** Assistance E&I QA/QC Manager  
**Period:** Sep 2014 - Jun 2016  
**Scope of Work:** E&I Sub-Contractor Contract / Two (2) C3/C4 Refrigeration storage Tank and Jetty Facilities with 22 kV Substation

### **1. Thai Woo Ree Engineering Co., Ltd. (Feb 2010 – Sep 2014)**

**Project:** Khaoboya Spherical Tank (STK Project)  
**Client:** PTT Public Co., Ltd  
**Position:** Electrical Engineer  
**Period:** May 2013 – Sep 2014  
**Scope of Work:** EPCC Contract. / Two (2) LPG Spherical Storage Tank.

**Project:** PTT Onshore Compressor Station No.4 Project (OCS4 Project)  
**Client:** PTT PLC Co., Ltd.  
**Position:** Electrical Engineer  
**Period:** Sep 2012 - Apr 2013  
**Scope of Work:** EPCC Contract. / Upstream Compressor Station Plant with 115 kV substations

**Project:** BST NB Latex Project.  
**Client:** Bangkok Synthetics Co., Ltd  
**Position:** Electrical Engineer  
**Period:** May 2011 - June 2012  
**Scope of Work:** EPCC Contract. / Chemical and Latex Plant with 22 kV substations

**Project:** PTT Tank Terminal Project  
**Client:** PTT Tank Co., Ltd  
**Position:** Electrical Engineer  
**Period:** Mar 2010 - Mar 2011

**Scope of Work:** EPCC Contract. / Storage Tanks Farm and Jetty Facility with 22kV substation.

**Project:** Hydrogen Plant Project

**Client:** DOW Chemical Co., Ltd

**Position:** Electrical Engineer

**Period:** Feb 2010 - Mar 2011

**Scope of Work:** Civil Construction Contract. / Grounding and Building Work

**Internship: Tirathai Transformer Co., Ltd. (Oct 2007 – Feb 2008)**

**Position:** Electrical Engineer (Internship)

**Period:** Oct 2007 - Feb 2008

**Scope of Work:** Transformer Test