

# Eyoel Tegegn

MSc. Chemical Engineering  
Project Engineer



## Qualifications

Bachelor Science (Chemical Systems)  
Master of Engineering (Chemical)

With over 7 years of experience as a project and lead control system engineer for in various industries including pharmaceutical, mining, chemical & water industries. Eyoel is also highly skilled and experienced in Advanced Process Control (APC) and process simulation, having been involved in various model-based solutions.

## Background

- ❖ Over 7 Years’ experience in planning, designing, configuring, and operating of process control systems,
- ❖ Digitalization concepts and solutions (Industrie 4.0),
- ❖ Advanced Process Control such as Model Predictive Control and Kalman Filter for Bioreactors
- ❖ Process simulation and model-based solutions
- ❖ Facility Operation,
- ❖ Project Engineering,
- ❖ Quality Control and Quality Assurance.

## Project Management

In the capacity of a lead project engineer, Eyoel can oversee the planning, design, configuration, and commissioning of the process control system.

Eyoel’s main role will involve technical design and advice regarding the control system as well as project engineering, ensuring that the project is delivered on a timely basis with the highest of standards.

## Experience

### 2016 – Current

- ❖ Siemens (Aust) - Current
  - + CSL Vaccine Facility Project Engineer – project design
  - + Cobre Panama Commissioning Engineer
  - + Coogee Titanium – PCS 7 lead engineer
  - + Melbourne Water – implemented advanced process control (model predictive control)
  - + Dulux – upgrade of control system to PCS 7 V9
  - + Dulux – developed plant simulation for virtual commissioning and OTS

## Trainings

### Advanced PCS 7 training

- ❖ 6 weeks long training conducted in Germany covering all aspects of PCS 7 design, configuration, and commissioning

### SIMATIC Batch Course

- ❖ Developing, planning, and configuring a SIMATIC Batch project in accordance with ISA S88.01

### SIMIT Simulation

- ❖ Creation of process simulations in SIMIT for virtual commissioning and Operator Training System (OTS) applications

### Process Control Fundamentals – Manta Control

- ❖ Fundamentals of process control, control system design, controller tuning as well as dynamics of enhanced control (cascade, feed-forward, dead-time compensation, constraints control) and control strategy design (decoupling interactions, FAT, SAT etc.)

Digitization	+
Digital Twins	+
Project Engineering	+
Industrie 4.0	+
Cybersecurity	+
Advanced Process Control	+
Process Simulation	+
Process Control Systems (PCS)	+
Batch Processing ISA88.01	+
Manufacturing Execution Systems (MES)	+
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