

#### SOFTWARE ENGINEER · MES (MANUFACTURING EXECUTION SYSTEM) ENGINEER

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# Summary.

Experience in Software Enterprise (Manufacturing Execution System) from Siemens and Software Development +3 Years specializing in the full stack development as a Web Developer, software enterprise in Manufacturing refer to ISA-95 and I manage infrastructure (Linux or Windows) Environment On Premises or Cloud (Google Cloud Platform) as well. My passion is creating innovation to solve problems and helping people to reach their purpose, and learning new technologies and tools if the need arises.

I have strong Engineering professional with a Diploma 3 focused in Mechatronics, Robotics, Automation Engineering from Politeknik Manufaktur Negeri Bandung (PMS-ITB)

# Skills

Core Languages Typescript, C# **Environment** Nodejs, .NET **Web Framework** Nestis, Vue, Vite

**Databases** Microsoft SQL Server, PostgreSQL

Infrastructure Tool Docker, Kubernetes, Helm, Terraform, Terragrunt, Github Action, Lens, Google Cloud Platform

Messaging System and Caching NATS, Redis

**Robotics** C++, Robot Operating System

**Low Code Development** Mendix Siemens

**Enterprise Industrial** Manufacturing Execution System, Opcenter Core Siemens Software

# Work Experience \_\_

### **Opex Consulting Group**

SOFTWARE ENGINEER | MES (MANUFACTURING EXECUTION SYSTEM) ENGINEER

Indonesia - Singapore - Malaysia

Apr. 2021 - Present

Jan. 2022 - Jan 2023

- Implement and Deliver Solution for Digital Transformation in Manufacturing 4.0
- Configured System Administration of Windows Server 2019
- Integration of Enterprise Software
- Administration of SQL Database Server
- Setup Observability Tools
- · Opcenter Siemens Execution Core / Electronics (Modelling Bussiness Process of Physical, Process, Execution) MES
- · Opcenter Siemens Execution Core / Electronics (Configuring Bussiness Logic in Designer, and manage Portal Studio) MES
- Design and Create Custom Application for Manufacturing Process using (.NET and Mendix Siemens)
- Manage Google Cloud Platform
- · Knowledge gained: Software Enterprise, Process Control, Aquisition Data, Production Management, Quality, Material Management, Maintenance Management, Data Integration
- Tech Stack: C#, Google Cloud Platform, Opcenter MES Siemens software, Desktop Application .NET, Siemens Mendix, System Administration Windows Server 2019, NLB (Network Load Balancer), IIS 8, Redis, Windows Service .NET, ASP.NET, Prometheus, AlertManager, Grafana, Grafana Loki, Promtail

**Vechr Community** Indonesia

• Developing an application IIoT refer to ISA-95

- · Developing an Event driven Application Monitoring Machine using Nest/Typescript and Vue/Typescript
- Create Realtime Historian data machine using Web Socket
- Create Audit History app

FULL STACK ENGINEER

- Create Drag & Drop Chart (Widget) for Dashboard, and connect with Web socket to achieve Realtime Chart System
- Manage Database Postgresql and Time Series Database (InfluxDB)
- Create Deployment Kubernetes using Helm Chart
- Sending Alert to SMTP
- · Knowledge gained: Event Driven Architecture, Microservices Pattern, Usage of Message Broker (NATS, MQTT), Container Orchestration, Manufacturing System, Design Authentication and Authorization, Restfull Pagination
- Tech Stack: Kubernetes & Helm Chart, Terraform, Terragrunt, GCP, Docker, NATS (Messaging System and Caching), MQTT, GIT Hooks, NGINX API Gateway, Node Mailer, Nest, Prisma ORM, State Management(pinia), Vue/Typescript, Husky, Commitizen, linter

M.ZULFIKAR ISNAEN · RÉSUMÉ APRIL 5, 2024

ThreeSixty Remote

SOFTWARE DEVELOPER (FREELANCE)

- · Created Frontend Application.
- · Doing Integration with Backend Rest API.
- Collaborative using Agile (JIRA).
- · Knowledge gained: Vuejs/Typescript, Docker, JWT auth, Stripe

Synergy Engineering

BSD Tangerang, Indonesia

FULL-STACK DEVELOPER

- Developing Application SBS (Synergy Bussines Suite) to create Front End and Backend using Ruby On Rails Framework.
- Collaborate team with Kanban Methodologies using Trello.
- Create API backend Rails with Postgresql.
- · Create Drawing tagging for Engineering Drawing.
- · Version Control System using Git and Gitlab.
- · Knowledge gained: Database Design, Authentication & Authorization, GIT FLOW
- Tech Stack: ruby, rails MVC, Javascript, HTML (.erb)/ Slim, SASS, NPM, GITLAB, Leafletjs, Cancancan, Devise, Dropzonejs, Bootstrap 4.

### L'Oréal (PT Yasulor Indonesia)

North Cikarang, West Java,

Indonesia

Sept. 2019 - Jan. 2020

Feb. 2022 - Jul. 2022

Jan. 2021 - Apr. 2021

SOFTWARE DEVELOPMENT ENGINEER

- Doing Software Development "Inspection Check application using ASP.NET and VB.NET".
- Doing Maintenance & Preventive on Filling Machine.
- Doing Maintenance & Preventive Process Machine SKID.
- Knowledge Gained: VB.net, ASP.net, Desktop Application, Maintenance system.

### PT Datareka Integrasia Teknologi

Cimahi, West Java, Indonesia

Freelancer

- Troubleshooting Board PCB of Security Panel
- · Assembly Board PCB Controller and Power Supply using SMD Component

#### Midea Electronics Indonesia

North Jakarta, Indonesia

March. 2017 - July. 2017

FIELD SERVICE ENGINEER

· Maintenance and repair Air Conditioner.

Jun. 2016 - August. 2016

# **Honors & Awards**

### **DOMESTIC**

20194th Place, ROBOT ABU INDONESIA (KRAI)Bandung,Indonesia20181th Place, BEST ACADEMIC OF POLMANBandung,Indonesia20164th Place, MOBILE ROBOTICS NATIONAL 4thMalang,Indonesia	2	2020	1th Place, BEST GRADUATION OF POLMAN	Bandung,Indonesia
2018 <b>1th Place</b> , BEST ACADEMIC OF POLMAN 2016 <b>4th Place</b> , MOBILE ROBOTICS NATIONAL 4th  **Malang,Indonesia**  **Malang,Indonesia**	2	2019	1th Place, BEST ACADEMIC OF POLMAN	Bandung,Indonesia
2016 <b>4th Place</b> , MOBILE ROBOTICS NATIONAL 4th <i>Malang,Indonesia</i>	2	2019	4th Place, ROBOT ABU INDONESIA (KRAI)	Bandung,Indonesia
,	2	2018	1th Place, BEST ACADEMIC OF POLMAN	Bandung,Indonesia
2016 <b>1th Place</b> , MOBILE ROBOTICS WEST JAVA WestJava,Indonesia	2	2016	4th Place, MOBILE ROBOTICS NATIONAL 4th	Malang,Indonesia
	2	2016	1th Place, MOBILE ROBOTICS WEST JAVA	WestJava,Indonesia

## **Certificates**

2022 **Certified Practical DevOps Engineer**, Studi DevSecOps

2022 Docker & Kubernetes: The Practical Guide, Udemy

2022 The Nest JS Bootcamp - Complete Developer Guide, Udemy

2021 **Rapid - Mendix Developer Certification**, Mendix

2021 **React Js Web Frontend**, SanberCode

# **Education**

### **Bandung Polytechnic for Manufacturing (Polman)**

Bandung, Indonesia

ASSOCIATE'S DEGREE IN MECHATRONICS ENGINEERING 3,60 OF 4,00

2017 - 2020

• Final project for "Implementation Navigation System using ROS (Robot Operating System) for Autonomous Mobile Robot (AMR)"

• Other project "Implementation interpolation CNC 2.5D using Algorithm Digital Differential Analyzer (DDA)"

### Vocational High School - SMKN 1 Cimahi

ASSOCIATE'S OF INDUSTRIAL ELECTRONICS

Cimahi, Indonesia

2013 - 2017

• Final project for "How to Work of System Air Conditioner Type MSF09CRN"

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#### Freyabadi **Pseudo Manufacturing Execution System**, Jan, 2024 - Present Karawang,Indonesia PCI Manufacturing Execution System, November, 2022 - August, 2023 Batam,Indonesia WIK Manufacturing Execution System, October, 2021 - December, 2022 Batam,Indonesia Vehcr IIoT Web App (Open Source), January, 2022 - Sep, 2022 Vechr Indonesia ThreeSixty paymeforms.com, February, 2022 - July, 2022 Remote Opex Ivermectin Bank App Hybrid Mobile Apps, June, 2021 - July, 2021 Remote **Enterprise Dashboard Web Application**, May, 2021 - June, 2021 Opex Remote Synergy Synergy Bussines Suite Web Application, January, 2021 - April, 2021 Bandung,Indonesia Polman Autonomous Mobile Robot Interface HMI WEB, August, 2020 - September, 2020 Bandung,Indonesia Polman CNC Servo Controller with Digital Differential Analyzer Interpolator, June, 2020 - August, 2020 Bandung,Indonesia Polman **Prototype Autonomous Mobile Robot**, June, 2020 - August, 2020 Bandung,Indonesia Inspection and Breakdown Check Web App, November, 2020 - December, 2020 Bandung,Indonesia Inspection Check Desktop App, October, 2020 - November, 2020 Bandung,Indonesia Loreal