M Zulfikar **Isnaen**

SOFTWARE DEVELOPER · MECHATRONICS ENGINNER · SOLUTION ENGINEER (MANUFACTURING EXECUTION SYSTEM)

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Summary

Currently I'm working as a solution engineer and freelancer of a software developer. As a solution engineer (include Software Engineering), I work especially in Manufacturing Execution System (MES) Software Enterprise from siemens.

I solved some complex business problems in manufacturing through technology and solve them through Programming, especially C# and manage the integration of enterprise software to machine level like SCADA and manage server On-Premise (Windows Server). On the other hand, also I've done freelance for software development using some framework Vuejs, Rails, and other stuff , you can check in my repository Github Account

Work Experience

ThreeSixty
SOFTWARE DEVELOPER (FREELANCE)

Remote

Feb. 2022 - Present

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

Opex Consulting Group
SOLUTIONS ENGINEER

Indonesia - Singapore (hybrid)

Apr. 2021 - Present

- Developing an Application using Mendix Platform.
- Collaborate team using agile methodologies in Mendix Platform.
- Installing and Configuring MES (Manufacturing Execution System) Siemens Opcenter Core architecture, SMTP, Windows Server 2019, SQL Setup, Windows Failover, Microsoft NLB, SQL Server Always On.
- Developing a Windows Service for Integration MES Siemens to another system like an ERP System and Machine/Scada Level using .NET Framework (v4.7.2, C#).
- Manage Database SQL Server.
- Created Modelling MES Siemens based on Bussines Requirement.
- Knowledge gained: C#, MES Siemens software, Desktop Application, Manufacturing System, Mendix, Windows Server

Synergy Engineering
FULL-STACK DEVELOPER

BSD Tangerang, Indonesia

Jan. 2021 - Apr. 2021

- 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: ruby, rails MVC, Javascript, HTML (.erb)/ Slim, SASS, NPM, GIT/GITLAB, Leafletjs, Cancancan, Devise, Dropzonejs, Bootstrap 4.

L'Oréal (PT Yasulor Indonesia)
SOFTWARE DEVELOPMENT ENGINEER

North Cikarang, West Java, Indonesia

Sept. 2019 - Jan. 2020

- 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
FREELANCER

Cimahi, West Java, Indonesia

March. 2017 - July. 2017

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

Midea Electronics Indonesia
FIELD SERVICE ENGINEER

North Jakarta, Indonesia

Jun. 2016 - August. 2016

- Maintenance and repair Air Conditioner.

Achievement

2020	**BEST GRADUATION OF POLMAN**, Politeknik Manufaktur Bandung	*Bandung,Indonesia*
2019	**BEST ACADEMIC OF POLMAN**, Politeknik Manufaktur Bandung	*Bandung,Indonesia*
2019	**ROBOT ABU INDONESIA (KRAI) 4th**, Ristekdikti (Kontes Robot Abu Indonesia)	*Bandung,Indonesia*
2018	**BEST ACADEMIC OF POLMAN**, Politeknik Manufaktur Bandung	*Bandung,Indonesia*
2016	**MOBILE ROBOTICS NATIONAL 4th**, Kemendikbud	*Malang,Indonesia*
2016	**MOBILE ROBOTICS WEST JAVA 1th**, Dinas Pendidikan Jawa Barat	*WestJava,Indonesia*

Education

POLMAN (Politeknik Manufaktur Negeri Bandung)   *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)"

SMKN 1 Cimahi   *Cimahi, Indonesia*

ASSOCIATE'S OF INDUSTRIAL ELECTRONICS   *2013 - 2017*

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

Organization

Robotic Engineering Society of Polman   *Bandung, Indonesia*

ELECTRICAL AND PROGRAMMERS   *2018-2019*

- Designing architecture of robotic system
- Programming Embedded System
- Creating Schematic PCB for Motor Driver, Driver for Peneumatic System
- Event: Kontes Robot Abu Indonesia

Himpunan Mahasiswa Teknik Otomasi Manufaktur dan Mekatronika (HIMAMO)   *Bandung, Indonesia*

KEMASYARAKATAN   *2017-2020*

- Survey in Lembang Village to implements Solar Panel System

Robotika SMKN 1 Cimahi   *Cimahi, Indonesia*

ELECTRICAL AND PROGRAMMERS   *2016-2017*

- Programming of FESTO Robot Didatic (Robotino)
- Event: Mobile Robotic tingkat Jawa Barat, Mobile Robotic tingkat Nasional

Competencies

Mechatronics

- Robot Operating System (C++ or Python)
- PLC (Omron)
- Robotino Festo Didatic
- Manufacturing Execution System MES (Opcenter Core Siemens)
- Microcontroller (AVR or ST Microcontrollers)
- Mechanic and Design Mechanic (Milling, Turning, Pneumatic, Solidworks)
- Design CAD PCB (Eagle, Altium)
- Industrial Electrical

Software Development

- Full Stack Development (Mendix, Ruby on Rails)
- Backend (Nestjs/Typescript, NATS, Kafka, Windows Service/C# .NET)
- Frontend (Reactjs, Vuejs/Typescript, Figma)
- Database (SQL Server, MySQL, MongoDB, Postgresql)
- Desktop App (Windows Form/C#)
- Deployment (Docker, VPS, AWS (EC2), GCP (Compute Engine))
- Version Control System or SVN (Git, Github, Gitlab)
- Bash Command
- OS (Windows Server 2019, Linux Ubuntu)