



M Zulfikar Isnaen

SOFTWARE DEVELOPER · MECHATRONICS ENGINEER · 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

Skills

Full Stack Development	Mendix, Ruby on Rails
Back-end	Nestjs/Typescript, NATS, Windows Service/C# .NET
Front-end	Reactjs, Vuejs/Typescript, Figma
Programming	Typescript, Javascript, Ruby, C#, Bash
Deployment	Docker, VPS, AWS (EC2), GCP (Compute Engine), Heroku, Netlify
SVN	Git, Github, Gitlab
Database	SQL Server, MySQL, MongoDB, Postgresql
OS	Windows Server 2019, Linux
Enterprise Industrial	Manufacturing Execution System, Opcenter Core Siemens Software
Robotics	Robot Operating System (C++), Robotino Festo Didatic
Microcontroller & Design	Altium Designer, Solidworks, AVR, Industrial Electrical
Languages	English, Indonesia

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 Business 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 Business 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

- 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.

North Cikarang, West Java,
Indonesia

Sept. 2019 - Jan. 2020

PT Datareka Integrasia Teknologi

FREELANCER

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

Cimahi, West Java, Indonesia

March. 2017 - July. 2017

Midea Electronics Indonesia

FIELD SERVICE ENGINEER

- Maintenance and repair Air Conditioner.

North Jakarta, Indonesia

Jun. 2016 - August. 2016

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	West Java, 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 Pneumatic 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