



M Zulfikar Isnaen

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

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Summary

Hi, I'm Zulfikar my background is from a Mechatronics Engineer with a strong interest in software Engineer.

Now I'm working as a solution engineer and freelancer of a software developer. As a solution engineer, 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. 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 (zulfikar4568).

Work Experience

ThreeSixty

SOFTWARE DEVELOPER (FREELANCE)

Remote

Feb. 2022 - Present

- Created Frontend Application.
- Doing Integration with Backend Rest API.
- Collaborative using Kanban Methodologies.
- 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

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.

Freelance Electrical

TECHNICIAN

Cimahi, West Java, Indonesia

March. 2017 - July. 2017

- Troubleshooting and assembly electronics device
- Testing Board PCB

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	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

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, ASP. Net/C#)
- Backend (Nestjs/Typescript, NATS, Kafka)
- 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)