

M Zulfikar Isnaen

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

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Education

POLMAN (Politeknik Manufaktur Negeri Bandung)

Bandung, Indonesia

2017 - 2020

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

· 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 Cimahi, Indonesia

ASSOCIATE'S OF INDUSTRIAL ELECTRONICS

2013 - 2017

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

Skills____

Core Languages Typescript, C#, Ruby

Environment Nodejs, .NET

Web Framework Nestjs, Reactjs, Vue, Vite, Ruby On Rails

Databases Microsoft SQL Server, PostgreSQL

Infrastructure Tool Docker, Kubernetes, Helm, Terraform, Terragrunt, Github Action, Lens

Messaging System and Caching NATS, Redis

Robotics C++, Robot Operating System

Low Code Development Mendix

Enterprise Industrial Manufacturing Execution System, Opcenter Core Siemens Software

Work Experience _____

Vechr Community Indonesia

FULL STACK ENGINEER Jan. 2022 - Present

- 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
- · 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

July 7, 2023 M.Zulfikar Isnaen · Curriculum Vitae

SOLUTIONS ENGINEER 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 (Including SSL), SQL Server Always On, IIS 8
- 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. for Tracebility, Process Control, Aquisition Data, Production Management, Quality, Material Management.
- Design and Create Application for Manufacturing Process.
- Knowledge gained: Software Enterprise, Process Control, Aquisition Data, Production Management, Quality, Material Management, Maintenance Management, Data Integration
- Tech Stack: C#, MES Siemens software, Desktop Application, Mendix, Windows Server 2019, Redis, Windows Service, ASP.NET

ThreeSixty Remote

SOFTWARE DEVELOPER (FREELANCE)

Feb. 2022 - Jul. 2022

- · 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

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: 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,

Sept. 2019 - Jan. 2020

Indonesia

SOFTWARE DEVELOPMENT ENGINEER

Doing Software Development "Inspection Check application using ASP.NET and VB.NET".

- Doing Software Development Inspection Check application using ASP, NET and V
- 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

FIELD SERVICE ENGINEER

March. 2017 - July. 2017

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

Midea Electronics Indonesia

North Jakarta, Indonesia

Jun. 2016 - August. 2016

• Maintenance and repair Air Conditioner.

Honors & Awards

DOMESTIC

2020	1th Place, BEST GRADUATION OF POLMAN	Bandung,Indonesia
2019	1th Place, BEST ACADEMIC OF POLMAN	Bandung,Indonesia
2019	4th Place, ROBOT ABU INDONESIA (KRAI)	Bandung,Indonesia
2018	1th Place, BEST ACADEMIC OF POLMAN	Bandung,Indonesia
2016	4th Place, MOBILE ROBOTICS NATIONAL 4th	Malang,Indonesia
2016	1th Place, MOBILE ROBOTICS WEST JAVA	WestJava,Indonesia

Certificates

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

Projects

Opex	PCI - Manufacturing Execution System, November, 2022 - Present	Batam,Indonesia
Vechr	Vehcr IIoT Web App (Open Source), January, 2022 - Present	Indonesia
Opex	WIK - Manufacturing Execution System, October, 2021 - December, 2022	Batam,Indonesia
ThreeSixty paymeforms.com , February, 2022 - July, 2022		Remote
Opex	Ivermectin Bank App Hybrid Mobile Apps, June, 2021 - July, 2021	Remote
Opex	Enterprise Dashboard Web Application, May, 2021 - June, 2021	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
Polman	Inspection and Breakdown Check Web App, November, 2020 - December, 2020	Bandung,Indonesia
Polman	Inspection Check Desktop App, October, 2020 - November, 2020	Bandung,Indonesia

Extracurricular Activity

Industrial Electronics Robotics

Cimahi, Indonesia

PROGRAMMER AND PLANNER

2015 - 2017

- Gained expertise in festo didatic programming robotino.
- Applied Principles of Mobile Robotics.
- Create strategy for challanges in competition.
- Got 1th place winner of Mobile Robotics in West Java, Indonesia
- Got 4th place winner of Mobile Robotics National in East Java Malang, Indonesia

Robotic Engineering Society of Polman

Bandung, Indonesia

2018 - 2019

ELECTRICAL AND PROGRAMMERS

- Designing architecture of robotic system
- Programming Embedded System using C++
- Implementation C++ in PID Control
- Creating Schematic PCB for Motor Driver, Driver for Peneumatic System
- Got 4th place winner of Kontes Robot Abu Indonesia in West Java, Bandung, Indonesia

Program Committees

Publication and Documentation, NATIONAL CAD CAM COMPETITION AND SEMINAR 2017 Bandung,Indonesia 2019 Division of Social community, Himpunan Mahasiwa Teknik Otomasi Manufaktur dan Mekatronika

M.ZULFIKAR ISNAEN · CURRICULUM VITAE JULY 7, 2023