

Moh. Nurul Anwar

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SUMMARY

Passionate Frontend Engineer with experience developing responsive web interfaces using Vue.js, Next.js, HTML, CSS, and JavaScript. Skilled in integrating APIs, optimizing performance, and implementing unit testing. Also experienced in embedded system integration through IoT projects. Eager to contribute to impactful software solutions and grow as a web engineer.

EDUCATION

Trunojoyo University

Bachelor of Science | Major in Electrical Engineering

Cumulative GPA 3.50/4.0

Relevant Coursework: algorithms and programming, network and data communications, organization and computer architecture, database management, digital image processing and artificial intelligence.

Bangkalan

Agu 2018 – Jan 2024

WORK EXPERIENCE

Software Programmer

Job Responsibilities:

- Developed software using Delphi and C#, integrating with Arduino microcontrollers.
- Designed and built electronic circuits and PCB using KiCad.
- Worked on hardware-software communication for embedded systems.

PT. Armadani Permata Kusuma

Feb 2024 – Now

INTERNSHIP EXPERIENCE

Front-end Engineer Intern

Develops Torche Blog Education website.

- Developed a responsive blog platform based on UI/UX designs using Next.js and Tailwind CSS.
- Built article viewer, category filters, search feature, responsive layout, and PWA functionality to enhance user experience.
- Integrated backend API and performed unit testing using Jest.

Torche Education

Feb 2023 – Jun 2023

Project-Based Intern: Front End Developer Virtual Internship Experience X Rakamin Academy Core Initiative

Complete various tasks related to Front End Developer activities such as.

Nov 2022 – Des 2022

- Developed a responsive e-commerce frontend using Vue.js and Fetch API.
- Connect the website to an API using the Fetch API and work with two categories in the API, namely "Men's Clothing" and "Women's Clothing," with a total of 20 product types.
- Implement unit testing using Jest to ensure a bug-free and seamless user.

SKILLS & TOOLS

Frontend Development: HTML, CSS, JavaScript, Vue.js, Next.js, Tailwind CSS, PWA, Responsive Design.

Backend/Other Tech: C#, Delphi, SQL.

Hardware/IoT: Arduino, ESP8266, ESP32, PCB Design, KiCad.

Tools: Git, GitHub, Visual Studio Code, Arduino IDE.

PROJECTS

- **Website Portofolio:** Personal portfolio website (HTML, CSS, Javascript) | [Link](#)
- **Torche Education Blog:** Responsible for creating website user interface (Next.js, Tailwind CSS) | [Link](#)
- **IoT RFID Attendance System:** Developed an RFID-based attendance system using I2C LCD 16x2, buzzer, button, and card reader (without Arduino board) | [Link](#)
- **Custom Mechanical Keyboard:** Designed a custom keyboard PCB layout using KiCad | [Link](#)
- **Arduino Button-to-Delphi Communication:** Implemented serial communication between Arduino button module and Delphi GUI for controlling UI elements based on button state | [Link](#)

- **Smart Environmental Logger:** Built an IoT-based environmental monitoring system using ESP32, DHT11, MQ2, and GPS. Data (temperature, humidity, gas level, and location) is sent via HTTP POST to a Flask server and displayed in real-time on a web dashboard with an interactive map. | [Link](#)

CERTIFICATION

- Digital Talent Scholarship | Frontend Developer (HTML, CSS, JavaScript) | [Certificate](#)
- Dicoding Indonesia | Belajar Dasar Pemrograman Web | [Certificate](#)
- Dicoding Indonesia | Belajar Dasar Pemrograman JavaScript | [Certificate](#)
- Dicoding Indonesia | Belajar Dasar Structured Query Language (SQL) | [Certificate](#)

ACHIEVEMENT

- **3rd place in the technology sub category, category of Indonesian student entrepreneurship activities by Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi** **Nov 2021**
 - Secured third place in the esteemed KMI Awards for the Indonesian Student Entrepreneurship Competition (KBMI) under the Technology subcategory. This accolade acknowledges outstanding innovation and entrepreneurship in technology, demonstrating exceptional creativity, technical skills, and business acumen.
 - The type of business I am competing in involves the HINERGI Smart Meter, which offers an innovative solution for managing electricity usage. It makes it easy to monitor and control daily consumption. Users can set budgets based on their needs, and an alert system sends notifications to their smartphones if usage exceeds the desired limit. This system is designed to help households, corporate buildings, and manufacturing plants manage electricity efficiently and minimize rising utility bills.
- **1st Winner & Best Idea Scientific Research Competition by Udayana University.** **Aug 2021**
 - Title of the included scientific work "PIN-TORSYS (Company Inventory Monitoring System): Peningkatan Efektivitas Audit Persediaan Melalui Alat Pendeteksi Berbasis *Image Processing* Dalam Upaya Menuju *Improving The Welfare And Economy Of Indonesia*".
- **2nd Place in National Essay Competition "LEN" by State Islamic Institute of Madura** **Jun 2021**
 - Title of the included scientific work "Autic-Coo (Automatic Tobacco Dryer): Desain Kendali Sistem Fuzzy PID Sebagai Mesin Pengering Tembakau Otomatis Berbasis Arduino Dalam Menunjang Increase In The Plantation Sector di Indonesia".

ORGANIZATIONAL EXPERIENCE

Unit Kegiatan Mahasiswa Fakultas Teknik "Studi Otomasi dan Kendali Trunojoyo (SOKET)" Trunojoyo University

Staff Inventory and Robotic Team

Mar 2021 – Mar 2022

SOKET is an activity unit that focuses on electronics and robotics. Responsibilities and achievements:

- Recorded more than 35+ names and the number of used and unused tools/items in the laboratory.
- Managed and created Standard Operating Procedures (SOP) for borrowing tools/items in the laboratory.
- Worked with the robot team to access 5+ sensors and actuators on the robot.
- Programmed the robot using the Arduino programming language and Coocox IDE.

Unit Kegiatan Mahasiswa Fakultas Teknik "Inovasi" Trunojoyo University

Head of the Information and Communication Department

Mar 2020 – Mar 2021

Inovasi is a Student Activity Unit engaged in scientific and non-scientific reasoning and writing. Responsibilities and achievements:

- Developed work plans and departmental activities for one period.
- Provided information to members through the WhatsApp group regarding scientific writing competitions, essays, and other competitions related to scientific and non-scientific writing.
- Created more than 20+ content pieces per month on Instagram and successfully gained more than 900+ followers.