

Moh. Nurul Anwar

Bangkalan | +6283853127497 | mohnurulanwar89@gmail.com | [LinkedIn](#) | [GitHub](#)

SUMMARY

I have great interest in programming. It started when I was a sophomore student taking C programming language lessons. Eventually, I decided to study software development, specifically mobile or web application development. Over time, I also developed a strong interest in Internet of Things (IoT), especially in combining embedded systems with software solutions. Now, I am pursuing my passion for programming, IoT, and software development as a career.

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

PT. Armadani Permata Kusuma

Job Responsibilities:

Feb 2024 – Now

- 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.

INTERNSHIP EXPERIENCE

Front-end Engineer Intern

Torche Education

Develops Torche Blog Education website.

Feb 2023 – Jun 2023

- Create a blog website for writing and publishing articles, based on designs crafted by the UI/UX Team.
- Managed to create 25+ passive and interactive features.
- Integrate APIs created by backend engineers and test the API using Jest to ensure that it functions properly.

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

- Successfully completed a case study to create a visually responsive e-commerce website based on the provided design in Figma using Vue.js.
- 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

Technical skills: HTML | CSS | JavaScript | Next.js | SQL | DELPHI | C# | C | Arduino | Printed Circuit Board (PCB) Design.

Developer Tools: Visual Studio Code | Aduino IDE | Git | GitHub.

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](#)
- Throttle Control Head YD-100: Created a simulation interface using Arduino Uno and Delphi to read throttle analog values and map them to a degree scale for monitoring on a desktop application | [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](#)

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.