



Muhammad Afan Aljafar, S.T.

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About Me

My name is Muhammad Afan Aljafar, graduate of Electrical Engineering from Telkom University in 2021 with a GPA of 2.89 (scale 4).

Experienced as Sales Engineer for Telecommunication Product (VSAT, FTTH, BTS, Data Center) at PT. Tayoh Sarana Sukses, as Engineering & Maintenance Unit Head 'Glaze Application section' at PT. Mulia Keramik Indah Raya, and Instrument Maintenance intern staff at PT. Pupuk Kujang and Civil Electrical Mechanical Maintenance (CME) Intern Staff at PT. Telekomunikasi Indonesia Tbk. (WITEL Karawang).

I am transitioning from a career in Maintenance and Sales Engineering to Full-Stack Development Or software and Hardware Programming. I am driven by a strong passion for building scalable digital solutions and programming both software and hardware systems.

Skill & Competence

Electrical Skill

- PCB Design (Proteus ISIS/EAGLE)
- Electrical Schematic Design (AutoCAD Electrical)
- Electrical Instrumentation
- Electrical Wiring (Single Line Diagram)
- Basic Mechatronic design (AutoCAD/SOLIDWORKS)
- Embedded Systems (Microcontroller)

Programming Skill

- Basic Knowledge of Programmable Logic Control (PLC)
- Programming Microcontroller (C, C++ & Python)
- Fundamental of C/C++, Python, Javascript
Programming Language
- experienced with linux (Ubuntu)

Web Development Skill

- Basic Web Development (HTML, CSS)
- Full-Stack Development (MERN STACK)
MySQL, Express JS, React JS, Node Js
- Development Workflow
Version Control (GIT)

Maintenance Manufacturing Knowledge

- Total Productive Maintenance (TPM)
- Preventive & Corrective Maintenance
- Troubleshooting Electrical/Mechanical
Problems

Satellite Telecomm Knowledge

- Very Small Aperture Terminal (VSAT)
- Phased Array Satellite Terminal (VSAT)

“Good at Communication, Coordination, Teamwork, and having Critical Analytical Thinking”

Language(s) : Bahasa Indonesia (Proficient), English (Intermediate)

Education Details

Telkom University (2016 - 2021)

Bachelor of Electrical Engineering - GPA 2.89

- As research assistant at the INACOS Research Laboratory (Information and Autonomous Control System) Telkom University, conduct research on electrical automation systems and Robotics, Period February 2017 - April 2018
- As an open recruitment coordinator for new research assistant candidates for the 2018/2019 period, Designing and led the flow of activities or roadmaps and designed test questions for open recruitment participants
- Participated in the Kompetisi Mobil Listrik Indonesia/*Indonesian Electric Car Competition* (KMLI X) November 2018 as a Support Electrical Team (Grounded Low Voltage & Tractive System) in the INACOS Team, Telkom University – November 2018
- As Vice Coordinator of the INACOS Laboratory Research Assistant, guide the course of INACOS Laboratory research activities, Period April 2018 - December 2019
- Participated in the Kompetisi Mobil Listrik Indonesia/*Indonesian Electric Car Competition* (KMLI XI) November 2019 as a Core Mechanic Team (Drivetrain System) in the INACOS Team, Telkom University – November 2019

SMAN 2 Purwakarta (2013 - 2016)

Science

- Participate in futsal extracurricular activities

Job Experience

PT. Tayoh Sarana Sukses (Bekasi, Indonesia)

Sales Engineer 'Telecommunication' (December 2023 – April 2025)

- Understand the technical aspects of telecommunication installation material products (passive and active) provided by the company
- Conduct approaches, product presentations, product concept proofs, product sample approvals and are responsible for after-sales services for clients
- Responsible for preparing technical documents in the form of datasheets, technical drawing designs, manuals, device operations, and device certification
- Responsible for collecting product test data and planning product technical schemes
- Responsible about certification process for passive or active telecommunication products (TKDN, SDPPI)
- Achieve planned target per Quarter such as sales target, documentation and product development target
- Create technical schemes for testing and collecting product data for POC activities
- focused on Phased Array Satellite Antenna (VSAT) devices
- Commissioning VSAT devices and ensuring the system is functioning properly

PT. Mulia Keramik Indah Raya (Cikarang, Indonesia)

Engineering & Maintenance Unit Head 'Glaze Application Section' (June 2021 – November 2023)

- Supervise and coordinate the activities and needs of technicians in the glaze application section
- Responsible for carrying out machine maintenance using the Total Productive Maintenance method
- Fully responsible for the running of the glaze application machine & ceramic digital printing machine (planning, prevention, corrective, patrol check, breakdown action, troubleshooting, documentation and reporting of activity recaps) in the glaze application section
- managing the provision of important spare parts for glaze application machines and ceramic digital printing (bridging technicians with planners & spare part departments)
- responsible for carrying out activities to support production by planning maintenance, preventive maintenance, corrective maintenance, focus improvement, and Troubleshooting Machine
- coordinate with production parties regarding the need for optimization, effectiveness, efficiency to support smooth production.

PT. Pupuk Kujang (Karawang, Indonesia)

Instrument Maintenance Intern staff (June 2019 - July 2019)

- Understand instrumentation systems and control processes in the Pupuk Kujang Industry
- Contribute to checking the sensing components (sensors) of the control process, maintaining the condition of the components in a proper condition and good for use
- contribute and be responsible for repairing or installing components that require repair or new installation of certain components

PT. Telekomunikasi Indonesia Tbk. (Karawang, Indonesia)

Civil Mechanical Electrical (CME) Maintenance Intern Staff (May 2018 - July 2018)

- contribute to checking electrical equipment (electronic devices, power supplies, and sensors), checking special environmental conditions for electrical and mechanical equipment
- Responsible for collecting data on the condition of electrical and mechanical equipment

Organization

INACOS (Information and Autonomous Control System) Research Laboratory - Telkom University

Research Assistant (2017/2018)

conduct research on electrical automation systems and Robotics

INACOS (Information and Autonomous Control System) Research Laboratory - Telkom University

Open Recruitment Coordinator (2018)

Designing and led the flow of activities or roadmaps and designed test questions for open recruitment participants for new research assistant candidates for the 2018/2019 period

INACOS (Information and Autonomous Control System) Research Laboratory - Telkom University

Vice Coordinator of the INACOS Laboratory Research Assistant (2018/2019)

guide the course of INACOS Laboratory research activities

TETA (Telkom Student Community from Purwakarta)

Public Relation of Student Committee TETA Roadshow Go to High School

coordinating and take care of permits with high school officials to conduct visits and promotions about Telkom University

Achievement

Telkom University (November 2018)

Electric Car Competition (KMLI X) – 3rd position for two category

Participated in the Kompetisi Mobil Listrik Indonesia/Indonesian Electric Car Competition (KMLI X) in November 2018 as a Support Electrical Team in the INACOS Laboratory Research team (Information and Autonomous Control System) Telkom University – won 3rd position in the acceleration category and 3rd position in the speed category

Project

Telkom University (INACOS Laboratory, 2018)

Automated Guided Vehicle

build AGV robot for heavy cargo transportation based on line follower and rotary encoder sensor

Telkom University (INACOS Team, 2018-2019)

Electric Car Competition (KMLI X & XI): Electric Car

Build an electric car with INACOS TEAM with terms & conditions and smart features that comply with the competition rules for the KMLI X & KMLI XI championships

Telkom University (2020 - 2021)

Bachelor Thesis Project: Navigation System of Autonomous Wheelchair with Laser Sensor

Design and implement an autonomous wheelchair navigation system using lidar sensors and rotary encoder based on raspberry pi and Arduino UNO microcontrollers and odometry methods

PT. Mulia Keramik Indah Raya (2022)

Machine Improvement at the Glaze Application Section Area: addition of scrapper machine speed controller

designed and installed a speed controller using an inverter control unit (Yaskawa J1000) with the goal is finding suitable rpm to sustain the lifetime of the disc scraper used for scraping or cleaning the side of green tile

Web Programming Portofolio: afanaljafar.github.io/blog-portofolio/