

Naufal Rashad Aryaputra

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EDUCATION

GADJAH MADA UNIVERSITY

Applied Bachelor of Instrumentation and Control Engineering

Cumulative GPA: 3.4/4.00

Relevant Coursework: Electrical Engineering, Robotics, Automation

Yogyakarta, Indonesia

Aug 2019 – present

EXPERIENCES

PT. Miconos MBKM

Intern | Medical Device Supplier

- Currently intern for my final thesis.
- Designed and manufactured electronics and control system for heater on tissue processing device with a target 70% of domestic component level (TKDN).
- Analysed the system feedback control for optimal system configuration.

Yogyakarta, Indonesia

Apr 2023 – Now

PT. Stechoq Robotika INTERNSHIP

Intern | Engineering Consultant Company |

- Designed and manufactured minimum system electronics board for their product
- Made a control system that can be controlled from HMI with a PID feedback system
- Designed product specifications, documentations, and datasheet.

Yogyakarta, Indonesia

Jan 2023 – Apr 2023

Malone Groups INTERNSHIP

Intern | Engineering Consultant Company

- Provided Malone Group pricing and bundling strategy for their IoT system utilizing sensors.
- Working with major companies on UK such as Alton Towers, Smurfit Kappa, and El-watch sensor to provide solution over their complex problems.
- Planned IoT Sensors features and capabilities based on the customer needs.

Burton-on-Trent, UK

Nov 2022 – Oct 2022

PIMNAS 34

Team Leader | National Student Science Week

- Lead team consisting of 4 person to developed a robot to measure floor level with IMU sensor to add more measurements accuracy.
- Designed product specification, brandings, poster and documentations.
- Successfully lead a team start from proposal submission, funding, product development and final presentation.

Yogyakarta, Indonesia

June 2021- Oct 2021

Gadjah Mada Robotic Team

Team Captain | Al-Fatih Four Legged Search and Rescue Robot Division

- Directed 7 team member to collaborate and maintaining team cohesiveness to worked on a four-legged robot to increase its movement speed and better stability.
- Worked specifically on the robot gait, inverse kinematics, algorithms, and LIDAR sensor.

Yogyakarta, Indonesia

Jan 2020 – Aug 2022

SKILLS

Language: Bahasa Indonesia (native) and English (DET Score: 110 equals to IELTS: 6)

Programming Language: C++, Python;

Engineering Software: Fusion360, Eagle, Solidworks, Visual Code, KiCad.

AWARDS

IISMA Awardee at Coventry University, United Kingdom.

Finalist of PIMNAS 34

Funded Program Kreativitas Mahasiswa 2021

PROJECTS EXPERIENCE

Find me on Github: <https://github.com/naufalra>



Vacuum Assisted Closure project for PT. Stechoq Robotika

Hardware Engineer | Medical Device

Yogyakarta, Indonesia

Jan 2023 – Apr 2023

- VAC is a part of automation in medical devices that being researched by PT. Stechoq
- Responsible for a the electronics system consisting of main board, power, sensor, and Data acquisition system.
- Created the documents system such as datasheet and materials list of the product.
- For Detailed information:

https://naufalra.github.io/VacuumAssistedClosure_Internship_Pt.StechoqRobotika/

Automated Hydroponics Container System for PIAT UGM

Project Manager | Smart Farming

Yogyakarta, Indonesia

Jan 2022 – Mar 2022

- Successfully managed and directed 3 team member resulted in a full-scale product.
- Responsible directly for the automation system and data processing.
- Responsible for non-technical work like patents, cashflow, and technical documents
- For Detailed information: <https://naufalra.github.io/Contagrows-AnAutomatedHydroponicContainerSystem/>

Smart Levelling – Automated Floor Levelling for PIMNAS 34

Team Leader | Automation Device

Yogyakarta, Indonesia

Jan 2021 – Oct 2021

- Successfully lead 4 team member resulted as a finalist in PIMNAS 34
- Responsible directly for the measurement and sensory system.
- Responsible for non-technical work like patents, cashflow, and technical documents
- For Detailed information: <https://naufalra.github.io/SmartLeveling-PIMNAS34/>

Smart Levelling – Automated Floor Levelling for PIMNAS 34

Team Leader | Automation Device

Yogyakarta, Indonesia

Jan 2021 – Oct 2021

- Successfully lead 4 team member resulted as a finalist in PIMNAS 34
- Responsible directly for the measurement and sensory system.
- Responsible for non-technical work like patents, cashflow, and technical documents
- For Detailed information: <https://naufalra.github.io/SmartLeveling-PIMNAS34/>

Health and Social Distancing Band – Vfactor 2021

Hardware Engineer | Medical Device

Yogyakarta, Indonesia

May 2021 – Jul 2021

- During the pandemic, we developed a band that can alert its users to social distancing as a part of the Covid19 protocol. This device is applied for the VFactor 2021.
- Responsible for the mechanical, electrical system, and documents required
- For Detailed information: <https://naufalra.github.io/HealthandSocialDistancingBand-VFactor2021/>

IRV project for PT. KAI

Electronics Engineering | Railway Measurement System

Yogyakarta, Indonesia

Jan 2020 – May 2020

- IRV is a smart measurement system for PT. KAI to measure any crack on their railway automatically by using sensors and IoT system with data analysis.
- Developed a full electronics system consisting of gateway, battery, sensor, and wireless communication system.
- Debugged and trial error the electronics system for a better stability and accuracy.

Smart Leveling – Hibah Kompetisi SV UGM 2019

Electronics Engineering | Railway Measurement System

Yogyakarta, Indonesia

Jun 2019 – Nov 2019

- Successfully lead 4 team member resulted as a grand champion in Hibah Kompetisi SV UGM 2019.
- Responsible for product development.
- For Detailed Information: <https://naufalra.github.io/SmartLeveling-HibahKompetisiSV19/>