

Valentinus Mahendra Aaron Quendangen

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Motivated to work hard to achieve success and gain new experiences. Have an interest in robotics, engineering, microcontrollers, and medical fields. Sometimes, I like to build personal projects to gain experience.

EXPERIENCES

Program Merdeka Belajar Kampus Merdeka - Matching Fund | September 2022 - January 2023

- X-Mano (Exoskeleton Hand Robot) for Movement Therapy of Post-Stroke Patients. Part of the MBKM activities held by the Minister of Education and Culture. This project is a collaboration between IBEReality and Airlangga University to develop an exoskeleton hand to help post-stroke patients.
 - **Skills:** 3D Printing, AutoDesk Inventor, Microcontroller, Clinical trial, Entrepreneurship

Research Engineer Assistant, Neonatal Research Group FK UNAIR | August 2023 – Present

- Assisting in the development of research on the Smart Phototherapy System Airlangga Bilirubin Nesting (AirBiliNest), which is a phototherapy tool for jaundiced babies. Assist in assembling and testing the prototype as well as implementing the MBKM Matching Fund events related to this device.
 - **Skills:** Troubleshooting, Microcontroller, Laser Cutting, Soldering, Communication, Testing, Demonstrating

Chief Technological Officer, PT. Medika Karya Airlangga | December 2023 – Present

- Focusing on the development of medical devices with the current focus on smart phototherapy for jaundiced babies, named AirBiliNest, with the MKA-02 and MKA-03 Models. Charge in managing technical issues, such as the design and assembly of the controller, lamp design, sensor, technical drawing, Android application, and web design.
 - **Skills:** Troubleshooting, Microcontroller, Graphical Design, Laser Cutting, Soldering, Communication, Testing, Demonstrating, RnD, Android Studio, 3D Printing Design, Web Design, PCB Design, Technical Drawing, Electrical

Product Specialist for ENT Division at PT Edison Duta Sarana |

- Internship as a Product Specialist for the ENT Division. Charge in managing supply and stock, communicating between principals, purchasing, marketing, and doctors about the product needed, including instruments, ENT Unit, and endoscopy camera, training new users on using the product, and assistance in the use of the medical equipment during surgery.
 - **Skills:** Speaking (Indonesia and English), Communication, ENT basic, Management, Problem Solving

EDUCATION

Bachelor of Biomedical Engineering – Medical Instrumentation, Universitas Airlangga 2019-2023

- GPA/IPK: 3.68

ACHIEVEMENTS

- Best team work at Sebelas Maret International IoT Challenge 2021
- Silver award for iMIT SIC 2021 (4th International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity 2021) held by UiTM Cawangan Malaysia, "3d (Three-Dimensional) Lung Cancer Detection and Identification Based On Mixed Reality"

ORGANIZATIONS

- Design and Layouter Staff, FORMAT (Faculty Press Organization) 2019 - 2020
- MEDINFO Staff (Media and Information), BKK (Faculty Catholic Organization) 2019 - 2020
- Head of Human Resources Development, BKK (Faculty Catholic Organization) 2020 - 2021

SKILLS

Programming (Python/MicroPython, C++/Arduino, Matlab), HTML, CSS, Android Studio | Arduino, ESP, Analog Discovery | Laser cutting, Basic electronic, Electrical circuits, analog and digital electronics, Soldering, PCB design, Graphic design, 3D Printing