

Valentinus Mahendra Aaron Quendangen

Surabaya – Indonesia

aaronvalentinus@gmail.com • [+62 831 1460 2668](tel:+6283114602668) • <https://ronaaron61.github.io/about/>

Education

Universitas Airlangga

2019-2023

Biomedical Engineering – Medical Instrumentation Major

GPA/IPK: 3.68

Some of what I Learned: Programming and biomedical computing (C++, Python, Matlab), digital and analog electronics, control systems, intelligent systems, signal processing, biomaterials, Embedded Systems, anatomy and physiology

Experience

PT Integrasi Bisnis Eksekutif (IBE Reality)

September 2022 - January 2023

Program Merdeka Belajar Kampus Merdeka (MBKM) Matching Fund

- Helping with the manufacturing of X-Mano (Exoskeleton Hand Robot) for Movement Therapy of Post-Stroke Patients. Including the 3D design, microcontroller, and application
- Helping on the clinical trial to gain feedback from the post-stroke patients in Universitas Airlangga Hospital
 - 3D Printing, AutoDesk Inventor, Microcontroller, Clinical trial, Entrepreneurship

Neonatal Research Group FK Universitas Airlangga

August 2023 - Present

Research Engineer Assistant

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

PT Medika Karya Airlangga

December 2023 - Present

Engineer

- Research and development of a smart phototherapy system for jaundiced babies - Smart Phototherapy System Airlangga Bilirubin Nesting (AirBiliNest) Model 2 and 3.
- Charge in managing technical issues, such as the design and assembly of the controller, lamp design, sensor, controller program, technical drawing, Android application, and web design.
 - Troubleshooting, basic electronics, soldering, Microcontroller, PCB design, Graphic Design, Laser Cutting, Soldering, Communication, Testing, Demonstrating, RnD, Android Studio, 3D Printing Design, front-end Web Design, back-end web design

PT Edison Duta Sarana

July 2024 – October 2024

ENT Product Specialist

- 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 assisting in the use of the medical equipment during surgery.
 - Speaking (Indonesian and English), Communication, ENT basic, Management, Problem Solving

Technical Expertise

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

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

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