Muhammad Amrullah Robbani

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SUMMARY

Voracious full-stack web developer who specializes in front-end aspects for 4 years and enthusiastic biomedical engineer with proven skills in ideation, creation, and leadership in 1 internship and several biomedical engineering projects. Interested in biomedical data integration and optimization in sports or eSports to enhance player performance and coaches' knowledge. Led front-end team to refactor company CSR website to increase customer engagement up to 800 users and completed 4 biomedical engineering projects: non-invasive glaucoma detection, wearable ECG, teenager fitness data acquisition, and non-invasive fetal electrocardiogram.

EDUCATION

Institut Teknologi Bandung Indonesia *(2015-2019)* - Bachelor of Engineering, majoring in Biomedical Engineering **(GPA: 3.14)**
ITB is one of the top universities in Indonesia in Natural Sciences and Engineering & Technology.
- *Developed a full-stack website for managing hospital assets and warehouse for Ministry of Health of Malaysia Project*
- *Developed an electrode for wearable electrocardiogram vest and full - stack website and cloud to manage, analyze and display ECG data*
- *Received Asrama Salman Scholarship 2016 and 2017*
- *Received YBP PLN Scholarship*

EXPERIENCE

Bioelectricity Based Fetal Movement Detector *(Freelance Project)*   Bandung, Indonesia
Research Engineer   July 2021 – Present
- Designed and experimented on biomedical instrumentation of bioelectricity based fetal movement detectors for everyday use and collaborated with midwives to develop mobile, user-friendly, precise instrumentation.

Robovis Laboratory *(Biomedical Engineering Laboratory in Institut Teknologi Bandung)*   Bandung, Indonesia
Research Assistant   Jun 2018 – Jun 2021
- Designed and experimented on biomedical instrumentation for everyday use and collaborated with doctors to develop mobile, user-friendly, precise instrumentation.
- Developed a non-invasive glaucoma detection to acquire and analyze EEG signal and detect glaucoma then display the result on a website.
- Developed a non-invasive fetal electrocardiogram to obtain fetal heart signal and analyze the outcome.

Suteki Tech *(Education Technology Solutions Startup)*   Bandung, Indonesia
Front End Engineer   Mar 2022 – Present
- Led a front end team in Company CSR Project and developed a website to manage college students and synchronize data to The Ministry of Education, Culture, Research, and Technology Indonesia with up to 800 university users.
- Designed and created company source control documentation to increase and optimize company main web product source control

E-Life Solution Plt Malaysia *(startup consulting firm for technology solutions)*   Johor, Malaysia
Front End Engineer Intern   May 2018 – Jul 2018
Received return offer at the end of internship
- Worked with a team of other developers on built hospital assets and inventory management systems
- Designed indoor positioning system for hospital assets utilizing Internet of Things
- Develop and build a front-end website to manage, analyze and display assets and inventory usage on the hospital

Databugar.itb.ac.id *(Joint Project of three department in Institut Teknologi Bandung)*   Bandung, Indonesia
Website Developer and Consultant   Feb 2019 – Present
- As a web development project leader, planned, managed, and supervised the teenager fitness data Management web development, coordinated with the design team, and presented to the client of 2 high school and entire first-year of the university.

Regista *(Sport GPS tracker and athlete management startup)*   Bandung, Indonesia
Founder   Feb 2019 – Present
- Designed and developed a sport GPS tracker for football players to track player vital and performance assessment tools.

Vent-I Ventilator Indonesia *(COVID ventilator project by Masjid Salman ITB)*   Bandung, Indonesia
Calibration Engineering Volunteer   Mar 2019 – Jun 2019
- Designed prototype calibrator for newly designed ventilator and High Flow Nasal Cannula (HFNC) for COVID – 19.
- Conducted ventilator calibration and organized related documents to optimize HFNC production cost.

ORGANIZATIONAL ACTIVITIES

President – Pusat Teknologi Tepat Guna (Pustena)   Dec 2015 – Jul 2018
- Revitalize club and establish club foundation by collecting and implementing important document
  to plan and extends club life for 4 years
- Recruited 7 new members and designed new training curriculum to develop new member in technology aspects

Syiar Chief – Panitia Pelaksana Program Ramadhan (P3R) Salman ITB 1438 H   Dec 2016 – Jul 2017
- Led a team to plan and coordinate a Ramadhan Event with up to 20% member performance increase and client
  satisfaction.

ADDITIONAL INFORMATION

Certifications: Passed level C1 of CEFR by getting 7.5 overall band score on IELTS
Skills:
- Web Development: HTML, CSS, JS, ReactJS, VueJS, NuxtJS, NextJS, PostgreSQL, Nginx
- Data Processing: Python, TensorFlow, Google Suite
- Design: Adobe Photoshop, Krita, Manga Studio
- Language: English

Interests: Biomedical Engineering, Biomechanics, Web Development, Data Analysis in Sport and E-Sport