Habib Khairul

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Education

POLITEKNIK NEGERI JAKARTA   Depok, Indonesia
Diploma 3, Electrical Control Engineering. GPA [3.4]   September 2018 - 2021
Thesis: Three Dimensional Computer Numerical Control Laser Cutting Machine Based on Microcontroller
Relevant Coursework: Firmware development, Instrumentation and Control

Employment

PT Broduino   Depok, Indonesia
Internship   January 2021 – February 2021

- Assigned in research and development division to create project: Designing and Creating Power supply Unit for CNC machine
- Doing all of project using Arduino Programming Language and mikrokontroller ESP-32. and I have been finished all of those projects only in a month
- Implementing PID control to stepper motor using Ziegler-nichols method to calculate P,I and D value Designing and Developing Computer Numerical Control Machine
- Developing Computer Numerical Control Machine's Firmware for Laser cutting and engraving

PT Kereta Api Indonesia   Depok, Indonesia
Internship   July 2020 – November 2020

- Developing train generator monitoring system based on android using google cloud and MIT App inventor

Leadership and Activities

Student Creativity Programs   Depok, Indonesia
Leader   March 2021

- Managing Team of 3 participant to design electronic module casing Printing System Instructed by Gcode Based Android Application

PNJ's Internal Student Creativity Programs Seminar   Depok, Indonesia
Presenter   March 2021

- Provide material about writing proposals and What kind of actual problems that require solutions

National Student Creativity Programs   Depok, Indonesia
Leader   December 2019 – july 2020

- In Collaborating with PT.KAI to create an Android-based 500 KVA generator monitoring system
- Leading Team of 3 participant to create Overheating and Electricity Monitoring Device and System for Train generator based on Android
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Psychorobotic   Depok, Indonesia
Head of Division   January 2019 – December 2020
- The Pioneer of group learning about Line Follower Robot
- Attends on UPNVJ Transfer of Information at Universitas Veteran Jakarta
- Leading and Managing Research and Development Team

Skills & Interests

Technical: Embedded system, PID Control, Eagle PCB Designer, MATLAB, Arduino C/C++, HTML and PHP, Android Studio.
Language: English (TOEIC : 620) (TOEFL : 580)
Interests: Automation and Control System, Frontend\Backend Engineer and Embedded System

Achievements and Awards

Certificate of Competence about Intrumentation Technicion   Depok, November 2020-2023
Training to Prepare Implentation of Instrumentation Equipment Maintance and Calibration Sensor Reading Calculation on PLC

Participant of Pekan Ilmiah Nasional   Depok, august 2020 Compete
with various participants from leading universities in Indonesia to show the latest creativity and innovation in the field of automation and technology held by Ministry of Research and Technology

Funding Recipient of National Student Creativity Programs   Depok, march 2020
Funded by Ministry of Research and Technology to create Overheating and Electricity Monitoring System for Train generator based on Android