JULIAN REZA ERWANDI

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OBJECTIVE

Seeking opportunities in firmware development and programming, with a keen interest in desktop applications, robotics, computer vision, microcontrollers, and artificial intelligence. Eager to contribute to innovative projects and continuously grow in the field of programming.

EXPERIENCE

PT. TEC Indonesia   Batam, Indonesia
Firmware Engineer   March 2023 – Present
- Responsible for firmware development for thermal printers.
- Collaborated with cross-functional teams to deliver high-quality firmware solutions.

PT. TEC Indonesia   Batam, Indonesia
Software Engineer   July 2022 – March 2023
- Responsible for production test tools for barcode printer products.
- Collaborated with production and qualification teams to ensure efficient testing processes.

PT. Kuantum Gabe Integritas   Batam, Indonesia
Programmer Intern   March 2022 – July 2022
- Developed firmware for temperature and humidity monitoring devices using different platforms, including ATMEGA2560 + ESP32, ATMEGA2560 + Ethernet W5500, and STM32F103C8T6 + Ethernet W5500. Responsibilities included MQTT communication, EEPROM configuration storage, and overall firmware development.
- Contributed to an outgoing tester project, responsible for UI software development and executing .sql scripts in VB.Net for create database programmatically.

Humanoid Robot Research Group (Barelang FC)   Batam, Indonesia
Programmer   2018 –2022
- Responsible for programming humanoid robots, inverse kinematics and computer vision, utilizing languages such as C, C++, C#, Python,

EDUCATION

Batam State Polytechnic   Batam, Indonesia
Bachelor of Robotics Engineering   August 2018 – August 2022
GPA: 3.8/4.00 [transcript]
Final Project: Differential evolution for solving inverse kinematics problem in the upper body of an adult-sized humanoid robot [link]

SKILLS

- Programming Languages: C, C++, C#, VB.Net, Python
- Firmware Development
- Computer Vision
- Internet of Things (IoT)
- Robotics
- Research and Development
- Problem Solving

ACCOMPLISHMENTS

Some of my achievements so far are as follows [link].