

JULIAN REZA ERWANDI

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OBJECTIVE

Seeking opportunities in firmware development and programming, with a strong interest in robotics, computer vision, microcontrollers, and AI. Enthusiastic about contributing to innovative projects and dedicated to continuous learning and advancement in the technology field.

EXPERIENCE

PT. TEC Indonesia

Firmware Engineer

Batam, Indonesia

March 2023 – Present

- Responsible for firmware development for thermal printers.
- Ensure the quality of life cycle products through continuous firmware updates and improvements

PT. TEC Indonesia

Software Engineer

Batam, Indonesia

July 2022 – March 2023

- Responsible for production test tools for barcode printer products using MFC C++ and VB.Net.
- Collaborated with production and qualification teams to ensure efficient testing processes.

PT. Kuantum Gabe Integritas

Programmer Intern

Batam, Indonesia

March 2022 – July 2022

- Developed firmware for temperature and humidity monitoring devices on various platforms, including MQTT communication, EEPROM configuration storage, and overall firmware development.
- Contributed to an outgoing tester project, responsible for developing UI software and executing .sql scripts in VB.Net for creating database programmatically.

Humanoid Robot Research Group (Barelang FC)

Programmer

Batam, Indonesia

2018 – 2022

- Responsible for programming humanoid robots, inverse kinematics and computer vision, utilizing languages such as C, C++, C#, Python,

EDUCATION

Batam State Polytechnic

Bachelor of Robotics Engineering

Batam, Indonesia

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](#)].