

# RISKA DERLIANA PURBA

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## EDUCATION

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### Politeknik Negeri Batam - Batam, Indonesia

*Bachelor of Applied Mechatronics Engineer* | 3.91 GPA

09/2020 to 04/2024

## JOB EXPERIENCE

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### Metronarc Technology Pte. Ltd. - Batam, Indonesia

*Product Design and Development Engineer*

04/2024 to 06/2024

- Develop innovative product concepts based on market research and customer feedback analysis.
- Improved product performance through rigorous validation testing and iterative design revisions.
- Create prototypes based on user feedback during beta testing and refine the final design before mass production begins.
- Coordinated with marketing teams on promotional materials that accurately portrayed key features and benefits of the developed products.

### Sumitomo Wiring System Batam Indonesia - Batam, Indonesia

*Assembly Improvement Analyst Intern*

07/2023 to 03/2024

- Organized the production process by setting measurable goals for finished goods, minimizing downtime by 3% per day, and optimizing labor allocation, resulting in a 5% increase in overall production efficiency.
- Analyzed root causes of decreased efficiency and root causes of increased defect rates.
- Identified areas for process improvement, resulting in an overall increase in team productivity.
- Monitored line efficiency metrics.

## AWARDS

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### National Competition E-TIME, 7<sup>th</sup> Semester, 2023

Participants in National Competition E-TIME at Jakarta State Polytechnic category Programmable Logic Controller (PLC) using the TM221 Schneider PLC model

### 35<sup>th</sup> Pekan Ilmiah Mahasiswa Nasional (PIMNAS), 5<sup>th</sup> Semester, 2022

Participant of (PKM-KC) category at Universitas Muhammadiyah Malang.

### Winner of Project Based Learning (PBL) EXPO, 5<sup>th</sup> Semester, 2022

First place winner in the Internet of Things category at the PBL EXPO held at Politeknik Negeri Batam.

### Funding Recipient Program Kreatifitas Mahasiswa (PKM)-KC, 5<sup>th</sup> Semester, 2022

Karsa Cipta category with the project title "Rawai Pintar Alat Bantu Nelayan Mendeteksi Tarikan Ikan serta Lokasi dengan Efisiensi Waktu dan Bahan Bakar yang Terintegrasi Smartphone".

### Funding Recipient Program Kreatifitas Mahasiswa (PKM), 5<sup>th</sup> Semester, 2022

Karya Inovatif category with project title "Sistem Timbangan Analisa Tumbuh Kembang Bayi untuk Deteksi Dini Stunting Nasional Menggunakan Metode Z-Score Berbasis Internet of Things".

## PROJECT EXPERIENCE

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### SPARK "System Monitoring Machine Welding"

*LoRa Communication, Mechanical and UI Design*

10/2022 to 06/2023

- Makes the system capable of transmitting data over a distance of up to 2.2 km using the LoRa communication system.
- Create a mechanical design of the tool that is portable and easy to implement.
- Create an interface that is attractive and easy for users to use

### Timbangan Bayi Berbasis Internet of Things

*Microcontroller Programming and Electrical*

10/2021 to 08/2022

- Calibration of sensors and transmission of sensor data to Firebase database
- Wire electrical component

### Alat Pendeteksi pH Air pada Tambak Ikan

*Microcontroller Programming and Electrical*

01/2021 to 08/2021

- Wire electrical components
- Program and calibrate pH E kit 201-C sensor

## CERTIFICATIONS

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**Programmable Logic Controller** – Badan Nasional Sertifikasi Profesi (BNSP)

11/2023 to 11/2026

Credential ID 26510311400000112023

**Competence SMEs and Entrepreneurs** – Badan Nasional Sertifikasi Profesi (BNSP)

12/2022 to 12/2025

Credential ID 47000122000219982022

**Learn Schneider Plc Programming with TM221** – Udemy

06/2023

Credential ID UC-f6260e24-76bc-4707-8c26-890ea4bf043e

## SKILLS

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**Hard Skills:** Troubleshooting Skills, Product Testing, 2D and 3D modelling, Electrical Engineering, Prototype Development.

**Software Skills:** Solidworks, Arduino IDE, SoMachine, CX-Programmer, Eco Struxure Machine, Ms. Office.

## ORGANIZATION EXPERIENCE

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**Himpunan Mahasiswa Elektro (HME)**

03/2021 to 01/2022

Member of Departement Skill and Quality

- Committee for the "Pengaderan Elektro" 2021
- Committee for the Robotic Contest 2021