RISKA DERLIANA PURBA

PROFILE

I am a mechatronics engineering student at Politeknik Negeri Batam and I am currently seeking opportunities in software development, machine learning research, and data science. My ultimate goal is to develop a world-class iOS application, and I believe I have skills and drive to achieve this objective after successfully completing the Apple Development Academy.

CONTACT

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EDUCATION

Politeknik Negeri Batam
Sep 2020 – Present
SMA Negeri 17 Batam
Jun 2017 – Jun 2020

CERTIFICATE

Entrepreneurship and SME Competencies 2022

SKILLS

C++ [Arduino IDE]
PLC [CX One and SoMachine]
3D Desain [SOLIDWORKS]
2D Desain [AutoCAD and SOLIDWORKS]

PROJECT EXPERIENCE

LoRa Communication, UI Design and Mechanical

Oct 2022 – Present
SPARK "Monitoring Machine Welding" (*Project Based Learning*)
Responsibilities

- Develop a system capable of transmitting and receiving data using LoRa communication
- Design and construct an enclosure system
- Design UI

Microcontroller Programming and Electrical

Oct 2021 – Aug 2022
IoT-based Baby Weighing Scale (*Project Based Learning*)
Responsibilities

- Program and Calibrate sensors (load cells and ultrasonic hc-sr04)
- Wire electrical component

Electrical and Microcontroller Programming

Jan 2021 – Aug 2021
pH Meter for Fish Pond Water (*Project Based Learning*)
Responsibilities

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

AWARDS

35th National Student Scientific Week 2022

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

Winner of PBL EXPO 2022

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

Funding Recipient PKM-KC 2022

Funding recipient of the Student Creativity Program in the Creative Works category with the project title "Smart Fishing Gear for Detecting Fish Bites and Locations with Integrated Smartphone for Time and Fuel Efficiency"

Funding Recipient PKM-KI 2022

Recipient of funding from the Student Creativity Program in the field of Creative Works with the project title "Baby Growth Analysis Weighing System for Early Detection of National Stunting Using Z-Score Method Based on Internet of Things".

ORGANIZATION EXPERIENCE

Himpunan Mahasiswa Elektronika (HME)

Mar 2021 – Jan 2022
Member of Departement Skill and Quality