



PORTFOLIO

My



Presented By: Restu Bilkisti





WELCOME TO MY PORTFOLIO

RESTU BILKISTI

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INTRODUCTION

Fresh graduate Applied Bachelor of Automation Engineering Technology at Jakarta State University (GPA 3.78) with strong interest in IoT, industrial automation, electrical wiring, programming, robotic, web development, and electrical system design. Experienced in various IoT and automation projects, active in robotics competitions and workshops, and skilled in problem solving, teamwork, and leadership. Professional experience includes an internship at PT. Simentekindo (PLC, HMI, TIA Portal, electrical drawing) and part-time work as a Cashier, developing accuracy, time management, and customer service skills. Passionate about creating technology-based solutions to improve efficiency and system control in industrial environments.



EDUCATION

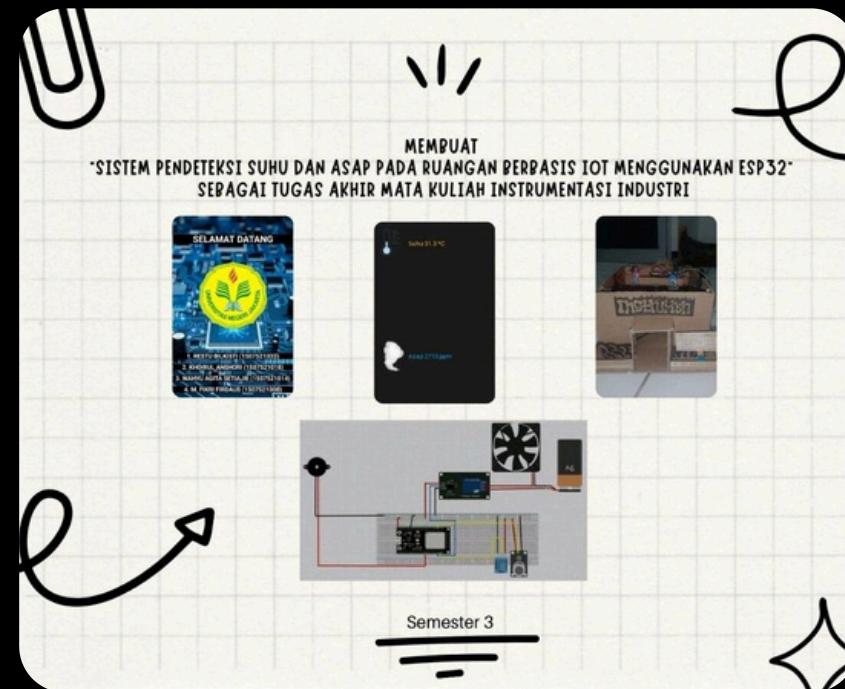


State University of Jakarta – Jakarta, Indonesia

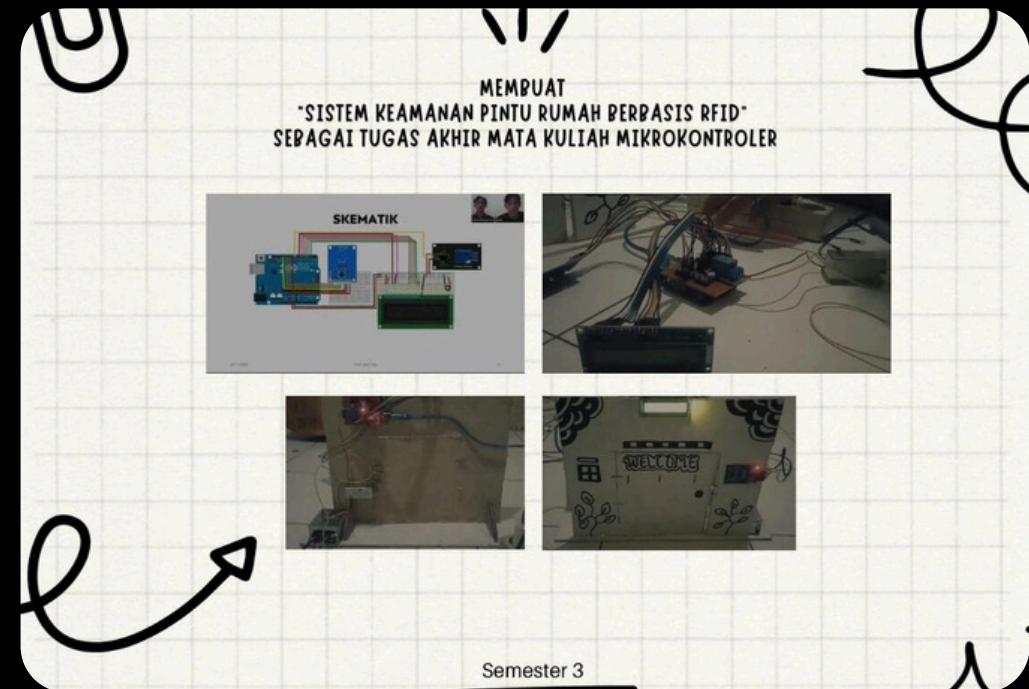
SEP 2021 - AUG 2025

- Specialized in IoT, industrial automation, programming, web development, robotic, electrical wiring, and electrical system design.
- Actively involved in robotics club, competitions, and workshops to strengthen technical and leadership skills.
- Completed multiple academic projects in IoT, robotic, web, automation, and security systems (detailed in project section).





IoT-based Temperature Detection
System using ESP32

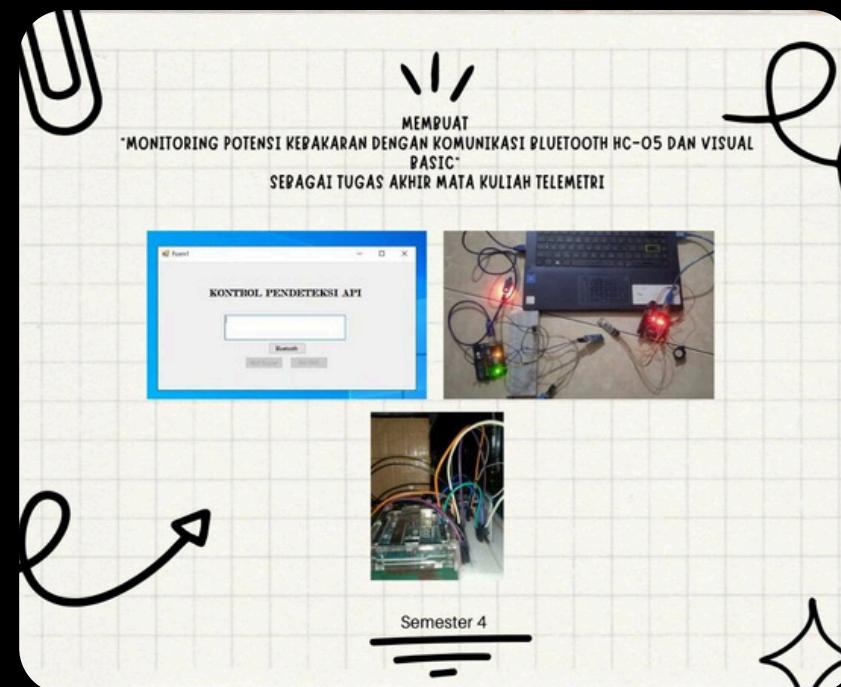


Home Door Security System based on
RFID

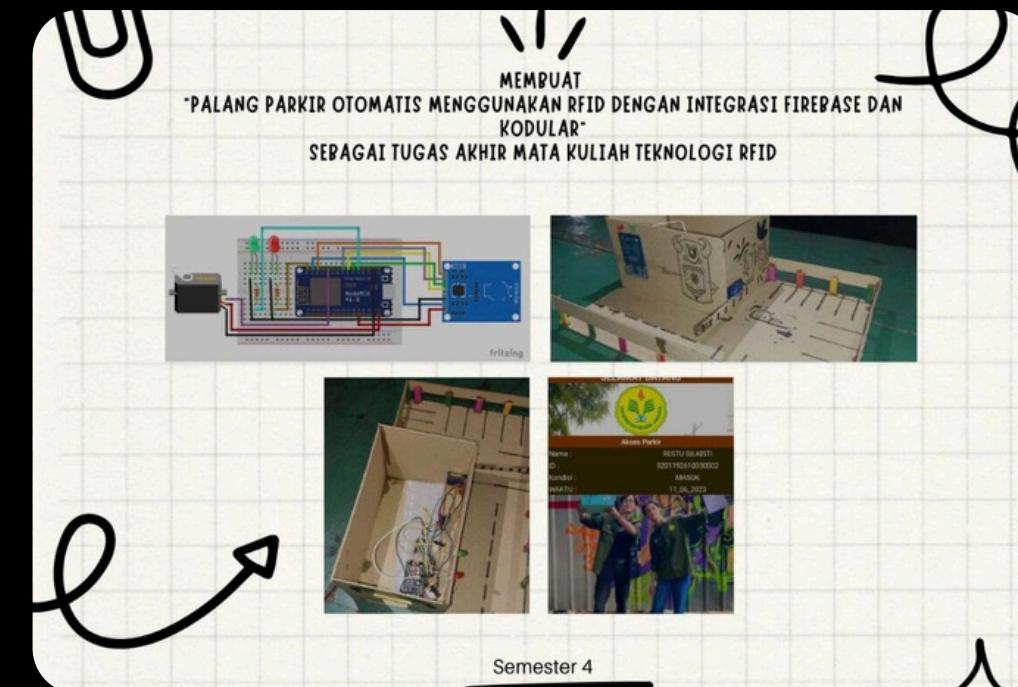


Automatic Hospital Sliding Door

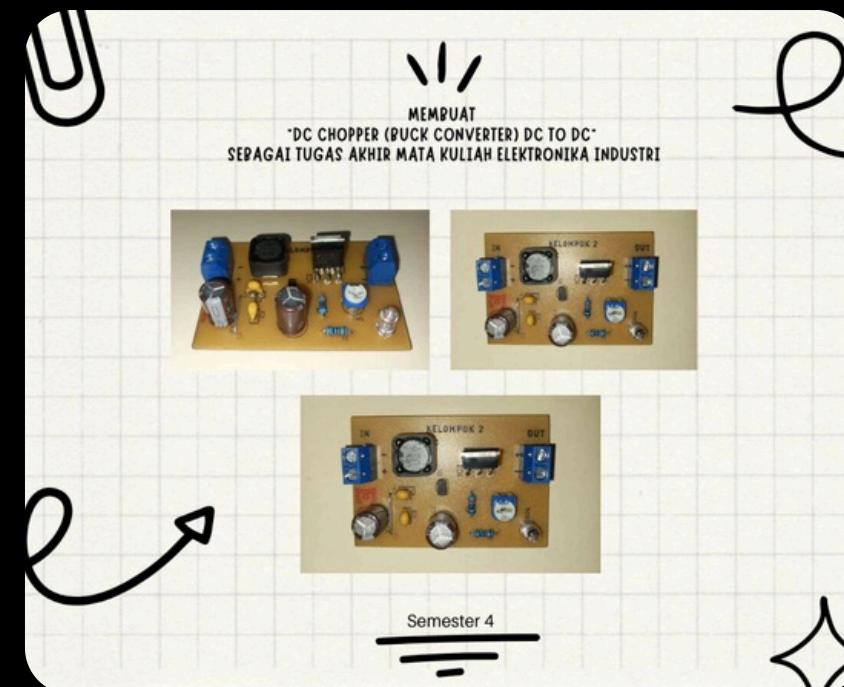
PROJECT



Fire Hazard Monitoring using Bluetooth HC-05 and Visual Basic



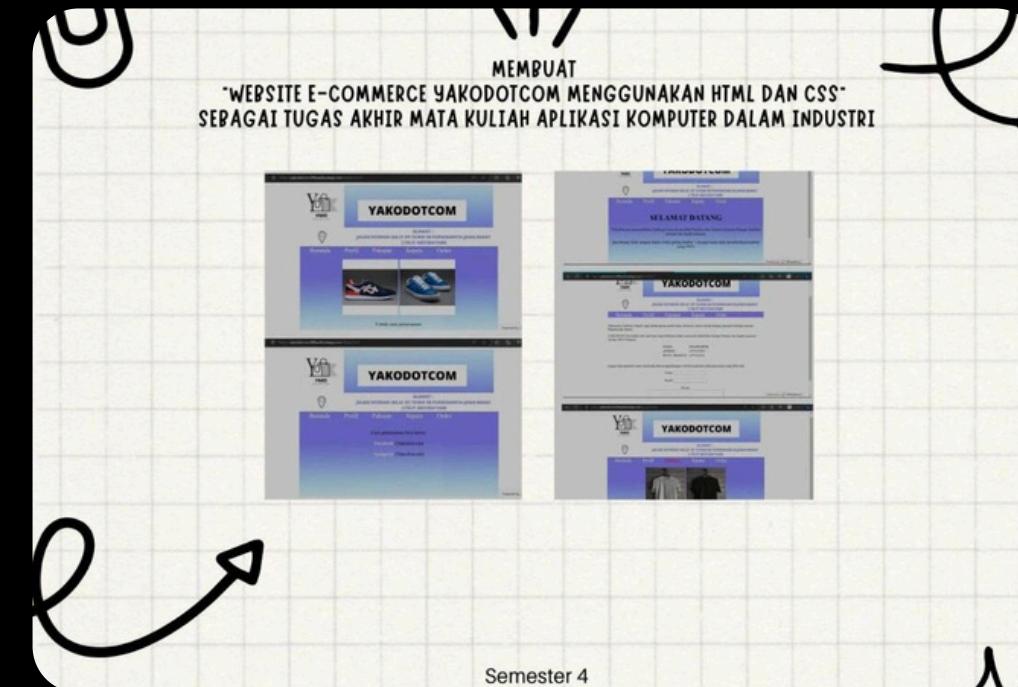
Automatic Parking Gate using RFID integrated with Firebase and Kodular



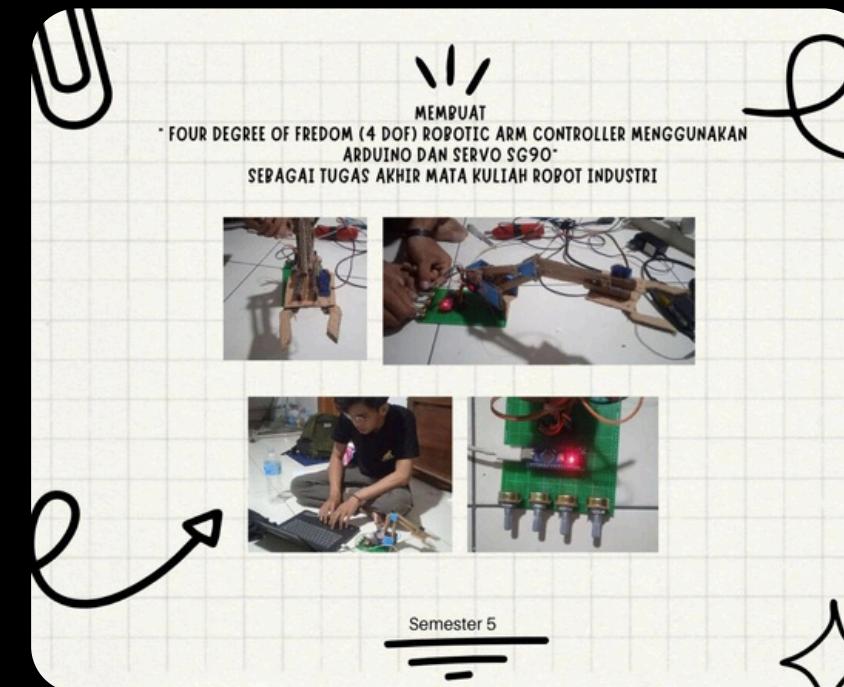
DC Chopper (Buck Converter) DC to DC



Quadruped Robot

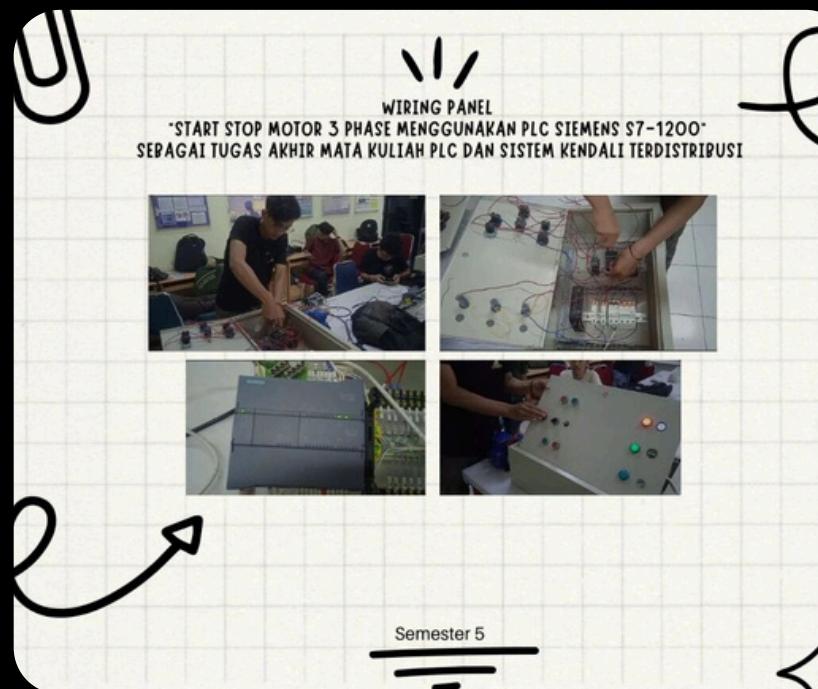


Yakodotcom E-commerce Website using HTML and CSS

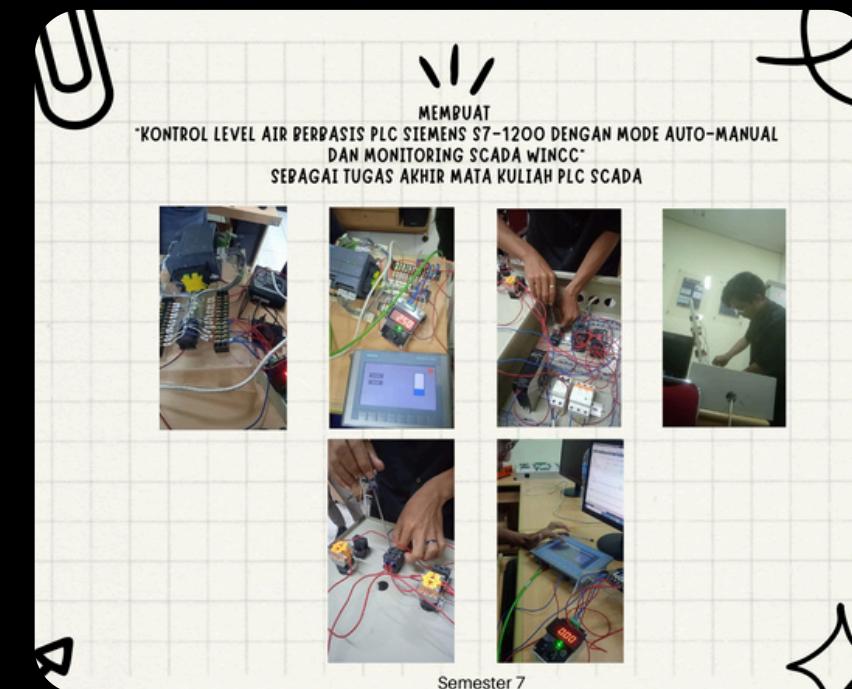


Four Degree of Freedom (4 DOF) Robotic Arm Controller using Arduino and SG90 Servo





Start-Stop Control of a 3-Phase Motor using
Siemens S7-1200 PLC



Water Level Control System based on Siemens S7-
1200 PLC with Auto-Manual Mode and SCADA WinCC
6 Monitoring

"PROTOTIPE SISTEM AKSES RUANG KELAS BERBASIS IOT MENGGUNAKAN TEKNOLOGI QR CODE"
SKRIPSI SARJANA TERAPAN

SISTEM

- Screen Pembuka
- Screen Scan
- Screen Berhasil Mahasiswa
- Screen Berhasil Dosen
- Akun
- Absensi

Firebase Database

Timestamp	User	Attendance	
13.00	Sahrul	1507521017	Hadir
13.15	Adjie	1507521018	Hadir
13.01	Ahmad	1507521019	Hadir
13.07	topik	1507521020	Hadir
13.08	Alfi	1507521021	Hadir
13.12	Azis	1507521022	Hadir
13.20	Bayu	1507521023	Hadir
13.04	Chris	1507521024	Hadir
13.25	Dzikri	1507521025	Hadir
13.21	Faqih	1507521026	Hadir
13.11	Farden	1507521027	Hadir
13.31	Fathur	1507521028	Hadir

Thesis : Prototype of Classroom Access System based on IoT using QR Code Technology





Screenshot 1: Game start screen with input fields for Name, Height/Weight, Favorite Food, and Favorite Drink, and a 'Mulai' button.

Screenshot 2: Game play screen showing a character, a progress bar at 0/10, and a row of seven icons representing different food items. A yellow arrow points to the rightmost icon.

Screenshot 3: Game play screen showing a character, a progress bar at 0/10, and a row of seven icons representing different food items. A yellow arrow points to the rightmost icon.

Screenshot 4: Student data history table with columns: Nama, Tanggal Lahir, Makanan Favorit, Minuman Favorit, Hasil.

	Nama	Tanggal Lahir	Makanan Favorit	Minuman Favorit	Hasil
17:21:13	Restu Bilkisti	2003-10-26	ayam	jus buah	Berulang
17:22:24	Restu Bilkisti	2003-10-26	ayam	jus buah	Menyantap
17:23:21	Restu Bilkisti	2003-10-26	ayam	jus buah	Kalau
17:26:07	Azizah amalia	2008-10-23	sushi	matcha	Berulang
17:27:01	ichsan albadi	2007-10-27	daging	jus alpukat	Berulang
17:28:26	reyhan pratama	2008-05-13	ikan lele	jus jeruk	Berulang
17:30:14	rahmat	2008-04-26	kue ape	teh tarik	Berulang
17:31:08	rizky	2008-04-15	ayam	teh tarik	Berulang
17:31:33	rizky	2008-04-15	ayam	teh tarik	Kalau

Screenshot 5: Feedback dialog showing a list of healthy eating tips with icons and descriptions.

- 1. Gorengan → +5 Tinggi lemak jenuh/trans dan kalori; proses penggorengan berulang kurang baik untuk kesehatan.
- 2. Mi instan → +5 Tinggi natrium, rendah serat & gizi; bumbu dan minyak menambah beban kalori.
- 3. Burger keju jumbo → +5 Kalori, lemak jenuh, dan garam tinggi; porsi jumbo menambah risiko kelebihan kalori.
- 4. Kol goreng → +5 Menyerap banyak minyak saat digoreng; gizi sayur jadi kurang optimal.
- 5. Donat gula glaze → +5

Screenshot 6: Success dialog congratulating the user on reaching 100 points for healthy living.

Wih! Kamu berhasil mencapai 100 point! Gaya hidup sehat ini yang harus kamu lakukan ya!

1. Salad sayur segar → +10 Banyak serat dan vitamin, rendah kalori—baik untuk pencernaan & kenyang lebih lama.
2. Nasi merah + lauk panggang → +10 Lebih tinggi serat & indeks glikemik lebih rendah; dipanggang = lebih sedikit minyak.
3. Ikan kukus + sayur → +10 Protein tinggi & lemak sehat; dikukus tanpa minyak menjaga nutrisi.
4. Buah potong → +10 Vitamin, mineral, dan serat alami tanpa gula tambahan—baik untuk metabolisme.

nah gini dong, nih bunga buat kamu, bentuk apresiasi untuk orang yg miliki hidup sehat! ❤️

Educational Game for Healthy Eating and Drinking Habits for Elementary School Students

<https://restuunj-svg.github.io/game-sehat/>



INTERNSHIP AND WORK EXPERIENCE

Toko Pupuk Aneka Usaha - Bogor, Indonesia *Cashier*

Professional Experience as a Cashier at Toko Pupuk Aneka Usaha, responsible for handling sales transactions, managing inventory, preparing financial reports, and serving customers. This role enhanced my skills in accuracy, customer service, time management, and problem solving while supporting my financial independence.

PT.Simenteknindo - South Tangerang, Indonesia *Engineer*

- Basic Tia Portal and HMI Training
- Safety Program Migration Training to TIA Portal
- HMI Installation and Tia Portal Migration at PT. Impian KitaCita Karya
- Assistance with Weighing Scale Replacement and Calibration Project for PT. Kideco Jaya Agung
- Safety Automation System Drawing for Furnaces in the Signal to PLC Relocation Project at PT. Asahimas

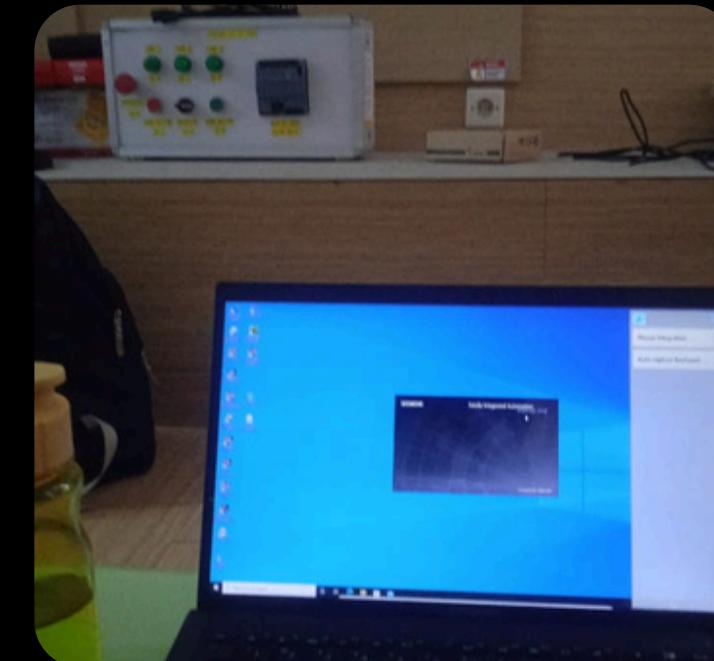
JAN 2022 - AUG 2025

FEB 2024 - MAY 2024



MY INTERNSHIP PROJECT

**Basic TIA Portal adn HMI
Training**



**Safety Program Migration
Training to TIA Portal**



**HMI Installation and Tia
Portal Migration at PT.
Impian KitaCita Karya**



**Assistance with Weighing
Scale Replacement and
Calibration Project for PT.
Kideco Jaya Agung**



**Safety Automation System
Drawing for Furnaces in the
Signal to PLC Relocation
Project at PT. Asahimas**



ORGANIZATIONAL EXPERIENCE

Robotic Club UNJ – Jakarta, Indonesia

Research & Technology Staff

SEP 2021 - DEC 2023

- Participate in various competitions and coordinate teams for competition preparation, including strategy development and presentation material preparation.
- Involved in a robot research project involving the design, development, and testing of prototypes
- Serving as the primary facilitator in organizing events and competitions, particularly in the creation of technological tools





CERTIFICATES & ACHIEVEMENTS



Workshop TRO: PLC Rockwell Training –
2024



Workshop on Robotics and Artificial
Intelligence for Education (BRIN) – 2022



Research & Technology
Staff, UNJ Robotic Club –
2022





**Workshop Facilitator: Line Follower
Robotics at schools in DKI Jakarta – 2023**



**Participant: IoT Development
Competition – Technocorner – 2022**



**Participant: Indonesian Soccer Robot
Contest – 2022**



**Participant, Electronics Study Center –
2021**



**Committee Member: New Member
Orientation (OAB), UNJ Robotic Club –
2022**



**Event Staff: Annual Meeting (RAK), UNJ
Robotic Club – 2022**



SKILLS

HARD SKILL :

- Internet of Things (IoT)
- Electrical Installation & Electrical Drawing
- TIA Portal Programming
- HMI (Human-Machine Interface) Programming
- Microcontroller Programming (C Language)
- Web Development (HTML, CSS, JavaScript)
- Robotics & Electronics
- Microsoft Office (Word, Excel, PowerPoint)

SOFT SKILL :

- Leadership
- Public Speaking
- Teamwork & Collaboration
- Problem Solving & Critical Thinking
- Communication (Indonesian & English)
- Creativity & Innovation
- Time Management
- Willingness to Learn



THANK YOU

For Your Attention

