



DENNIS PUTRA HILMANSYAH



Sidoarjo, Jawa Timur, Indonesia



denniez.hilmansyah29@gmail.com | +62881036466459 |



www.linkedin.com/in/dennisputrahilmansyah

My name is Dennis Putra Hilmansyah. I am a student majoring in Telecommunications Engineering. Interested in programming, computers, and networking. I like challenges and trying new things. I am interested in programming, computers and networking. I am a good learner and planner. Doing an activity according to schedule and plan is what I like. By planning something, we will do it more neatly and hopefully more smoothly.

EDUCATION

Politeknik Elektronika Negeri Surabaya (PENS)

D3 Telecommunication Engineering

- GPA 3.72 / 4.00
- Learn about Digital Electronics, Signal Processing, Programming, Communication Systems, and Electrical Networks.

TRAINING

- 2020 LKMM Pra – TD PENS
- 2021 LKMM TD PENS
- 2021 UI/UX Design and Create a Portfolio
According to Company Standards
- 2023 Data Analysis Course
- 2023 Digital Marketing Course

SOFTWARE SKILL

Microsoft Office

- ❖ Ms. Word, Powerpoint, Excel.

Engineer Software

- ❖ Arduino, Matlab, Codeblock, Netbeans, Proteus, GnuPlot, Android Studio, Cisco Packet Tracer, Linux, Visual Studio, Octave, Deeds DCS, PBX.

Desain Software

- ❖ Adobe Photoshop, Canva

Tech Stack

- ❖ Java
- ❖ PHP
- ❖ C++
- ❖ Python

PROJECT EXPERIENCE

Home Automation System 2021

- The simulation makes a smart home that can turn on household appliances using a cell phone via bluetooth.

Seawater Tide Monitoring System 20222022

- Create a tool to observe wave heights using LiDAR sensors..

Vehicle Counting & Classification System 2023

- Create a system to detect and count vehicles passing on the highway using Deep Learning.

WORK EXPERIENCE

Stasiun Meteorologi Maritim Tanjung Perak – Surabaya

- Join the technician and observation division
- Study weather data processing
- Create an innovation project monitoring the tides

LANGUAGE

- ❖ Indonesian
- ❖ English



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~PORTOFOLIO~



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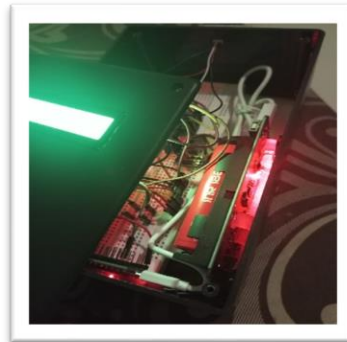


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PROJECT

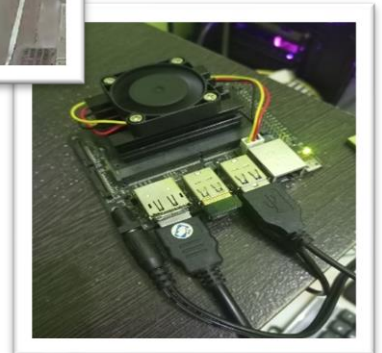
Design of ESP32-Based Tidal and Wave Height Monitoring System

This project creates a tool for monitoring tides and wave heights in real time. The sensor used is the LiDAR sensor. The working principle of the laser sensor in LiDAR is to calculate the distance based on the time interval information it takes for the laser beam to travel from the transmitter to return to the receiver. This project uses the C programming language.



Vehicle Calculation and Classification System for LHR Data Using SSD MobileNet V2

In this project create a system to be able to detect vehicles using deep learning. The detected vehicles will be classified based on the type of the vehicle, which then the system will calculate the number of vehicles passing on a highway. This project uses the Convolutiona Neural Network method with MobileNet V2 SSD mode. This project uses Python programming and Jetson Nano as computing tools.





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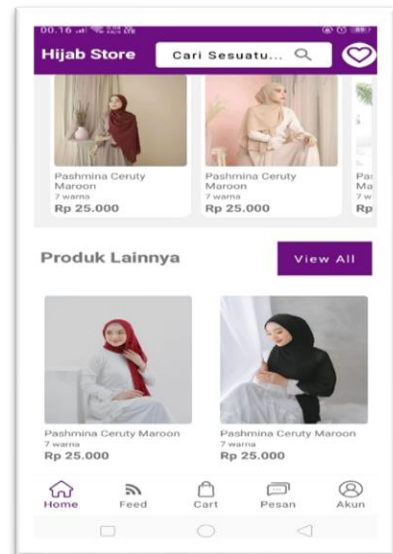
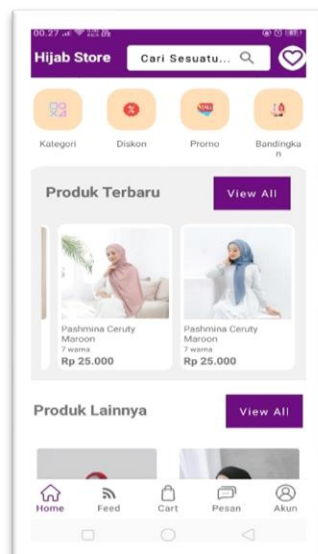
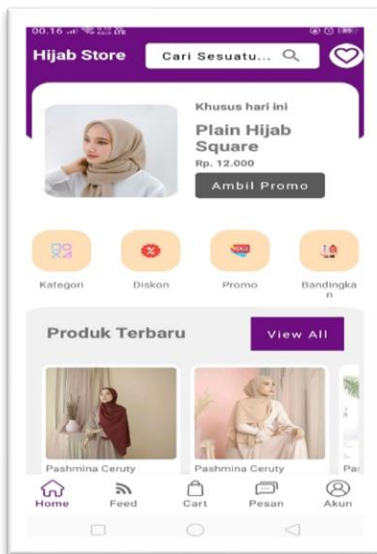
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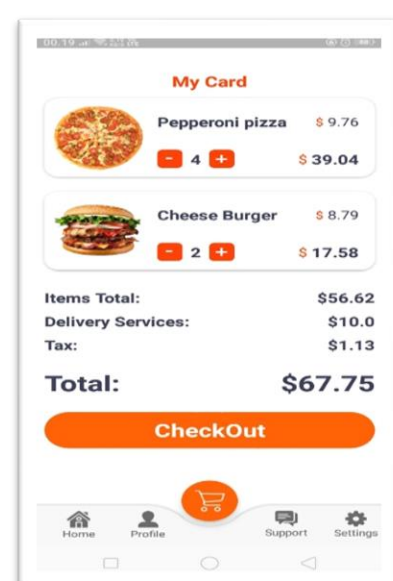
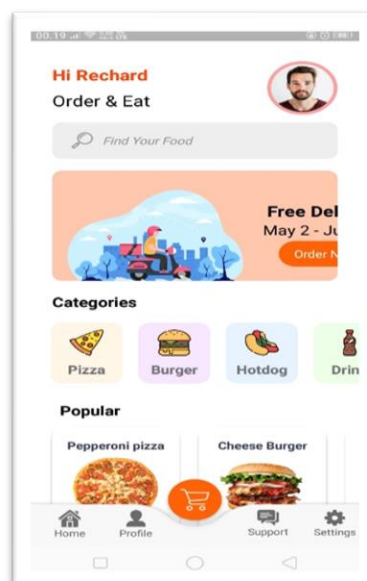
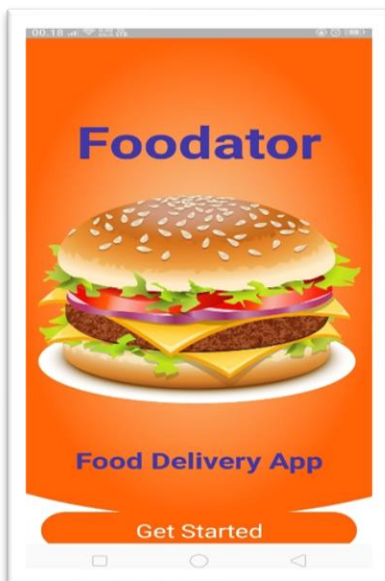
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UI/UX DESIGN

Hijab Sales Application Design



Food Sales Application Design





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

Jalan Raya ITS, Sukolilo, Surabaya, 60111
Telepon: +62-31-5947280 (hunting); Fax: +62-31-5946114
Laman: <https://www.pens.ac.id>; E-mail: info@pens.ac.id

SURAT KETERANGAN LULUS

Nomor : 0583/PL14/AK/2023

Yang bertanda tangan di bawah ini :

Nama : Dr. Bambang Sumantri, S.T., M.Sc.
NIP : 197812102003121002
Pangkat (Gol./Ruang) : Pembina (IV/a)/Lektor Kepala
Jabatan : Wakil Direktur Bidang Akademik

Menerangkan bahwa :

Nama : Dennis Putra Hilmansyah ✓
NRP : 2220500021 ✓
Program Studi : Teknik Telekomunikasi ✓
Tahun Masuk : 2020 ✓
Tahun Lulus : 2023 ✓
Lama Studi : 6 ✓
IPK : 3.72 ✓
Gelar : Ahli Madya Teknik (A.Md.T.) ✓

adalah terdaftar sebagai mahasiswa Politeknik Elektronika Negeri Surabaya dan dinyatakan LULUS sesuai Keputusan Direktur PENS nomor 0538/PL14/AK/2023, tanggal 13 Juli 2023, tentang Penetapan Lulusan Program Magister Terapan, Program Sarjana Terapan, Dan Program Diploma Politeknik Elektronika Negeri Surabaya Tahun 2023.

Surat Keterangan Lulus ini berlaku sebagai pengganti ijazah asli yang akan diberikan setelah proses verifikasi dan tanda tangan asli wisudawan.

Demikian Surat Keterangan Lulus ini dibuat untuk dipergunakan sebagaimana mestinya.



Surabaya, 17 Juli 2023

Wakil Direktur Bidang Akademik,

Dr. Bambang Sumantri, S.T., M.Sc.

NIP. 197812102003121002



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
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TRANSKRIP SEMENTARA

Nomor : 6242/PL14/TL/2023

Nomor (Jazah Nasional)
(National Decree Number) : 204022023000175
Departemen (Department of) : Teknik Elektro
(Electrical Engineering)
Program Studi (Study Program) : Program Studi Diploma Tiga (D3) Teknik
Telekomunikasi
(Advanced Diploma Program of Applied
Engineering in Telecommunications Engineering)
Tanggal Masuk (Entrance Date) : 04-09-2020
Tanggal Lulus (Graduation Date) : 13-07-2023
Lama Studi (Length of Study) : 6 Semester

Nama (Name) : Dennis Putra Hilmansyah

HRP (ID Number) : 2220500021
Tempat, Tanggal Lahir : GRESIK, 29 Juli 2000
(Place, Date of Birth)
Indeks Prestasi (GPA) : 3.72

Predikat (Predicate) : Dengan Pujian (Cumlaude)
Gelar (Degree) : Ahli Madya Teknik (A.Md.T.)
(Advanced Diploma of Applied Engineering)

PICTURE NOT AVAILABLE

No	Kode (Code)	Mata Kuliah	Subjects	SKS (Credits)	Jam (Hours)	Nilai (Grade)
Semester 1						
1	VT031101	Elektromagnetika 1	Electromagnetic 1	2	3	AB
2	VT031102	Rangkaian Listrik 1	Electric circuit 1	2	3	B
3	VT031103	Elektronika Dasar	Basic Electronic	2	3	AB
4	VT031104	Sistem Logika	Logic System	2	3	AB
5	VT031105	Dasar Pemrograman	Basic Programming	2	3	AB
6	VT031106	Praktikum Elektronika Dasar	Practice on Basic Electronic	1	3	AB
7	VT031107	Praktikum Sistem Logika	Practice on Logic System	1	3	A
8	VT031108	Praktikum Dasar Pemrograman	Practice on Basic programming	1	3	AB
9	VT031109	Workshop Pengukuran Listrik	Workshop on Electrical Measurement	2	4	B
10	VT031201	Bahasa Inggris 1	English 1	2	2	AB
11	VT031202	Agama	Religion	2	2	A
12	VT031203	Matematika 1	Math 1	2	2	AB
Semester 2						
13	VT032101	Elektromagnetika 2	Electromagnetics 2	2	3	A
14	VT032102	Rangkaian Listrik 2	Electric Circuit 2	2	3	AB
15	VT032103	Rangkaian Elektronika	Electronic Circuit	2	3	A
16	VT032104	Elektronika Digital	Digital Electronic	2	3	AB
17	VT032105	Pemrograman Lanjut	Advance Programming	2	3	A
18	VT032106	Praktikum Elektromagnetika	Practice on Electromagnetic	1	3	B
19	VT032107	Workshop Rangkaian Komponen Pasif	Workshop on Passive Component Circuit	2	4	A
20	VT032108	Praktikum Rangkaian Elektronika	Practice on Electronic Circuit	1	3	AB
21	VT032109	Praktikum Elektronika Digital	Practice on Digital Electronic	1	3	AB
22	VT032110	Praktikum Pemrograman Lanjut	Practice on Advanced Programming	1	3	A
23	VT032201	Bahasa Inggris 2	English 2	2	2	AB
24	VT032202	Matematika 2	Math 2	2	2	A
25	VT032203	Kewirausahaan	Entrepreneurship	2	2	A
Semester 3						
26	VT033101	Dasar Sistem Komunikasi	Basic of Communication System	2	3	B
27	VT033102	Mikrokontroler	Microcontroller	2	2	A
28	VT033103	Komunikasi Data	Data Communication	2	3	AB

No	Kode (Code)	Mata Kuliah	Subjects	SKS (Credits)	Jam (Hours)	Nilai (Grade)
29	VT033104	Saluran Transmisi	Transmission Media	2	3	AB
30	VT033105	Praktikum Dasar Sistem Komunikasi	Practice on Basic of Communication System	1	3	AB
31	VT033106	Workshop Microprosesor & Antar Muka	Workshop on Microprocessor & Interface	2	4	AB
32	VT033107	Praktikum Komunikasi Data	Practice on Data Communication	1	3	A
33	VT033108	Praktikum Saluran Transmisi	Practice on Transmission Media	1	3	AB
34	VT033109	Workshop Pengukuran & Instrumentasi Gel. Radio	Workshop on Radio Wave Measurement and Instrumentation	2	4	AB
35	VT033110	Workshop Metode Numerik	Workshop on Numerical Method	2	4	A
36	VT033111	Workshop Elektronika Komunikasi	Workshop on Communication Electronic	2	4	AB
37	VT033201	Bahasa Inggris 3	English 3	2	2	A
Semester 4						
38	VT034101	Jaringan Komputer	Computer Networks	2	3	AB
39	VT034102	Antena Propagasi	Antenna Propagation	2	3	A
40	VT034103	Sistem Rangkaian Komunikasi	Communication Circuit System	2	3	AB
41	VT034104	Kelayakan Trafik Telekom	Telecommunication Traffic Engineering	2	3	A
42	VT034105	Sinyal Sistem	Signal and System	2	3	A
43	VT034106	Praktikum Jaringan Komputer	Practice on Computer Networks	1	3	A
44	VT034107	Praktikum Antena Propagasi	Practice on Antenna and Propagation System	1	3	A
45	VT034108	Praktikum Sistem Rangkaian Komunikasi	Practice on Communication Circuit System	1	3	AB
46	VT034109	Workshop Jaringan Teleponi	Workshop on Telephony Network	2	4	AB
47	VT034110	Praktikum Sinyal Sistem	Practice on Signal and System	1	3	A
48	VT034201	Bahasa Inggris 4	English 4	2	2	AB
49	VT034202	Statistik dan Probabilitas	Statistic and Probabilities	2	3	A
50	VT034203	Bahasa Indonesia TIKI	Writing on Scientific Paper	2	2	A
Semester 5						
51	TT030201	Kerja Praktek 3 bulan		10	20	A
52	TT034301	Proposal Proyek Akhir		1	3	A
Semester 6						
53	KP000002	Etika dan Profesionalisme	Ethics and Professionalism	2	2	AB
54	TT036301	Proyek Akhir		4	12	A
55	TT040401	Workshop Pemrograman Internet		2	4	AB
56	WH030002	Pancasila		2	2	A
57	WH030003	Kewarganegaraan		2	2	A

Proyek Akhir (Final Project)

Catatan Nilai (Grade Explanation)

A	Istimewa (Excellent)	4
AB	Baik Sekali (Very Good)	3.5
B	Baik (Good)	3
BC	Cukup Baik (Sufficient)	2.5
C	Cukup (Fair)	2
D	Kurang (Poor)	1
E	Kurang Sekali (Very Poor)	0
Jumlah SKS Total Credits : 109 sks		

Pembimbing (Supervisors)

1. Hanifah Mahmudah, ST, MT
2. Rahardhita Widayatra Sudibyo, S.ST., MT., Ph.D.

Surabaya, 24 Juli 2023
Ketua Program Studi



Haryadi Amran Darwito, S.ST, MT
NP. 197001021995121001



SERTIFIKAT

Diberikan kepada:



**DENNIS PUTRA
HILMANSYAH**

2220500021

**Politeknik Elektronika Negeri
Surabaya**

Telah melaksanakan Kegiatan Praktik Kerja Lapangan (PKL) / Magang dari tanggal 28 Juli sampai dengan 30 Agustus 2022, meliputi 120 jam kegiatan, diselenggarakan di Stasiun Meteorologi Maritim Tanjung Perak Surabaya

A blue ink signature of Daryatno, written in a cursive style, is placed above the name 'DARYATNO'.

DARYATNO

Kepala Stamar Tanjung Perak Surabaya

MATERI PRAKTEK KERJA LAPANGAN / MAGANG JENJANG SARJANA

1. Profil BMKG

- a. Struktur Organisasi BMKG
- b. Tugas Pokok dan Fungsi BMKG
- c. Klasifikasi Stasiun BMKG
- d. UPT BMKG di Jawa Timur
- e. Struktur Organisasi Sutar Tanjung Perak Surabaya
- f. Wilayah Pelayanan Sutar Tanjung Perak Surabaya
- g. Ruang Lingkup Pelayanan Sutar Tanjung Perak Surabaya

2. Pengantar Cuaca dan Iklim

- a. Pengertian Cuaca dan Iklim
- b. Atmosfer Bumi
- c. Rotasi/Revolusi Bumi dan Radiasi Matahari
- d. Klasifikasi Awan dan Proses Terbentuknya Awan Hujan
- e. Prediksi dan Modifikasi Cuaca
- f. Satelit dan Radar Cuaca
- g. Pembentukan Musim di Indonesia
- h. El Nino, La Nina dan Indian Ocean Dipole Mode
- i. Puting Beliung vs Badai Tropis

3. Prediksi dan Informasi Cuaca

- a. Alur Kerja Forecaster
- b. *Numerical Weather Prediction (NWP)*
- c. Produk Informasi Prakiraan Cuaca
- d. *Indonesian Weather Information for Shipping (INA-WIS)*

4. Observasi Parameter Cuaca

- a. Pengenalan Peralatan Meteorologi
- b. Alur Kerja Pengamatan dan Pelaporan Parameter Cuaca
- c. Sandi Synop dan ME 48
- d. Pemeliharaan dan Kalibrasi Peralatan Meteorologi

5. Diskusi dan Praktek Bersama Forecaster

6. Diskusi dan Praktek Bersama Observer

7. Tugas Mandiri dan Penyusunan Laporan



BMKG



4891/PL14/PB/2023

PENS ENGLISH PROFICIENCY TEST (PEPT)

CERTIFICATE of ACHIEVEMENT

THIS IS TO ACKNOWLEDGE THAT

Dennis Putra Hilmansyah

HAS SUCCESSFULLY COMPLETED THE
PENS ENGLISH PROFICIENCY TEST (PEPT)

held in June 20, 2023

at PENS Language and Culture Center with an achievement
covering the subjects as stated:

Listening Comprehension	: 500
Structure and Written Expression	: 440
Reading Comprehension	: 410
Score	: 450



Aliridho Barakbah, S.Kom., Ph.D.

NIP. 197308162001121001

Valid for 2 (two) years from date of issue.