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PORTOFOLIO





ABOUT ME

Hello, I am Angel Gracia Simamora, a fresh graduate student of the D3 Computer Technology Study Program at the Del Institute of Technology. I have experience and expertise in Web Development, Internet of Things, Cloud Computing, Embedded Systems, UI/UX (DESIGN).

EDUCATION

University

Institut Teknologi Del | 2022



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Work Experience

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ORGANISATIONAL



**Himpunan Mahasiswa Teknologi
Komputer (HIMATEK)**
Division Public Relations

Cisco Networking Academy
Student

Huawei
Student

**Komisi Pemilihan Umum HIMATEK
(KPU HIMATEK)**
Head of Supervision and Security

PROJECTS

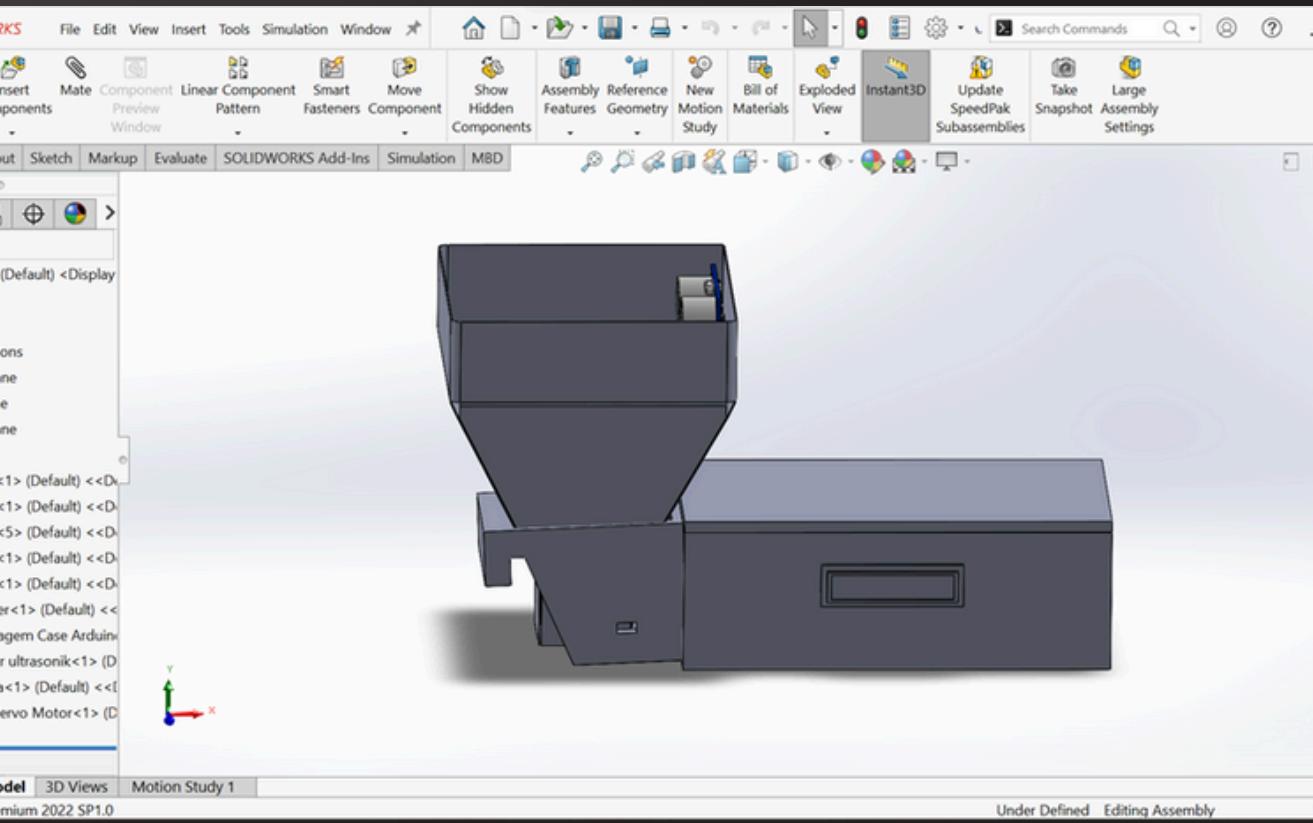
This is the result of my projects as long as I explore the world of Computer Engineering





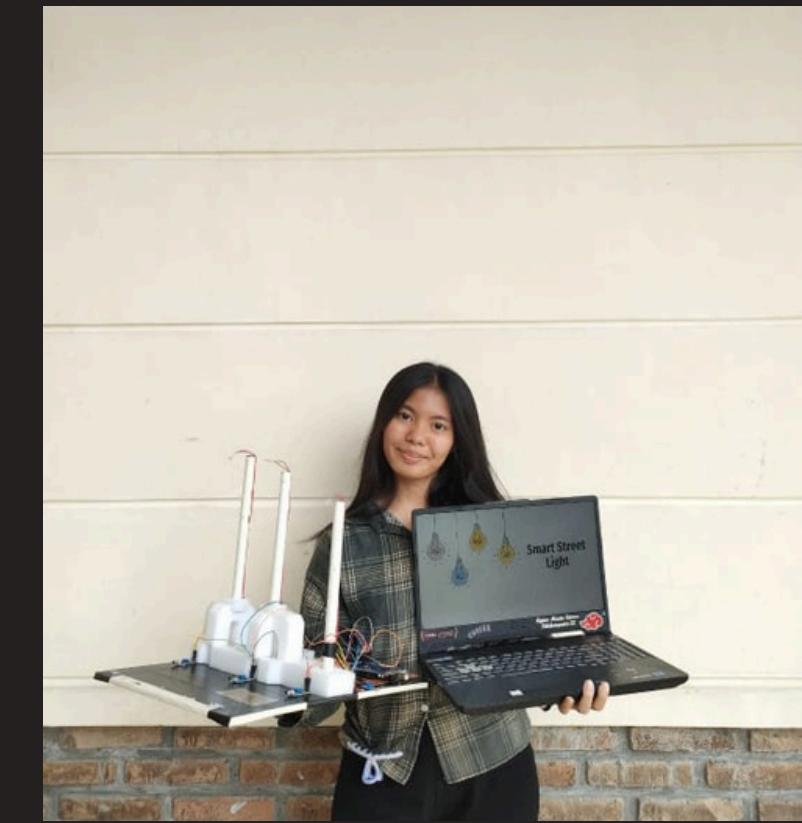
Internet Of Things

I developed an IoT-based automatic temperature and humidity monitoring and control system for oyster mushroom cultivation, integrating sensors and control mechanisms to maintain optimal environmental conditions. This system enables real-time monitoring, automates processes to enhance efficiency, and ensures consistent conditions for improved mushroom growth.



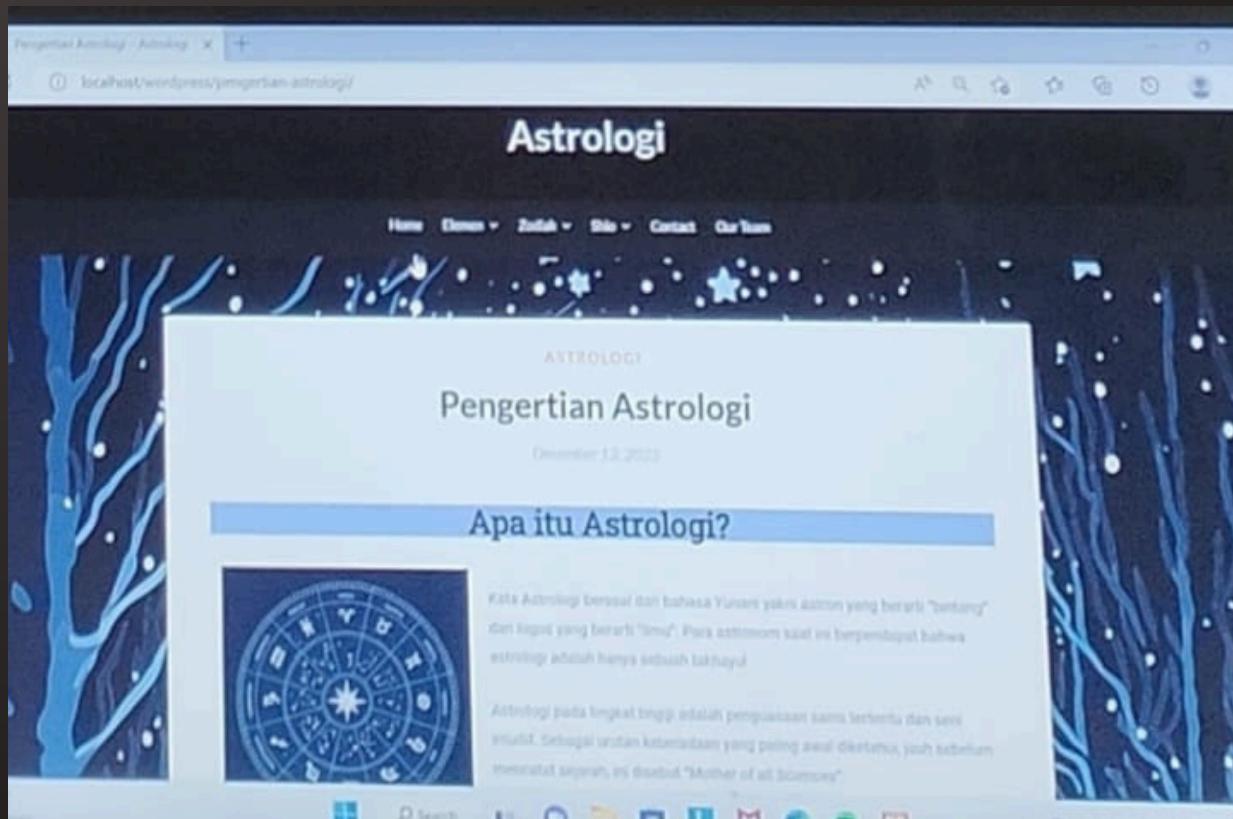
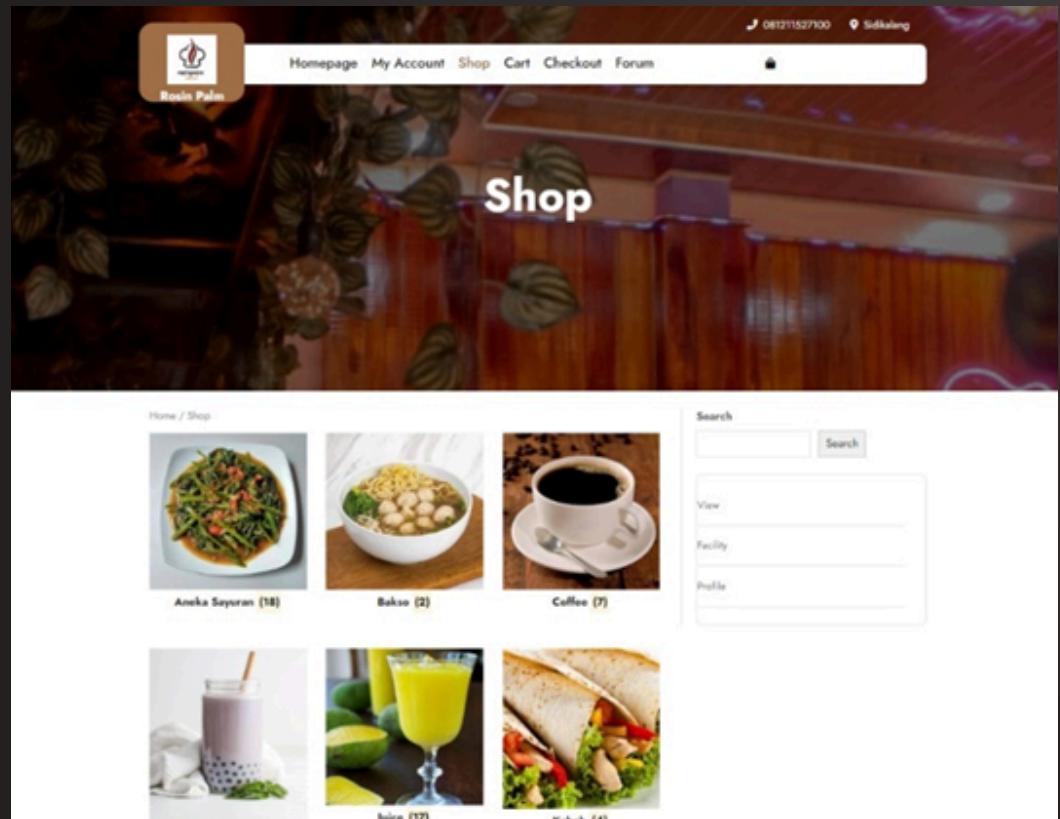
Solidworks

I designed and developed a prototype for an Automatic Fish Feeder, utilizing SolidWorks for precise product modeling and integrating Arduino Uno-controlled electronic components to automate feeding based on schedules or fish detection. The functional and reliable prototype minimizes manual intervention, ensuring efficient and consistent fish feeding.



Embedded System

I developed an automatic street lighting system that adjusts light intensity based on real-time traffic and pedestrian presence, integrating sensors to detect pedestrians, cyclists, and vehicles. This adaptive system regulates LED streetlights to conserve energy while ensuring road safety through responsive, on-demand lighting.

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WordPress

I developed a WordPress-based website for Rosin Palm Restaurant, featuring an interactive menu with easy navigation for viewing options, prices, and details. The backend functionality enables dynamic management and updates of menu items, supported by comprehensive documentation outlining the website's structure and usage.

Developed a WordPress website for an Astrology platform, featuring information on astrology, zodiac signs, elements, and contact details. Designed a user-friendly frontend for easy navigation and implemented backend functionality for dynamic content management.



Basic Electronics

I designed and assembled an electronic rain detection circuit using a PCB-mounted rain sensor to detect moisture and trigger an alarm. The system was built for optimal functionality, ensuring robustness and reliability for accurate rain detection and timely alarm activation.

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Web Development

A PHP-based school website manages student records, grades, timetables, and attendance with secure database integration. A Laravel-based hotel booking system simplifies reservations, room management, and payments with user authentication and dynamic booking calendars. A JavaScript and HTML DOM-powered Angel Shop website showcases smoothies, juices, and cookies, featuring a homepage, menu, login, and footer. A Toba cuisine website highlights traditional dishes, and a CIS login and registration system allows secure user access for managing personal data and transactions.

The screenshot shows a webpage for 'AngelShop In Here'. At the top, there's a banner image of a green smoothie topped with blueberries, raspberries, and coconut flakes. Below the banner, a pink header bar contains the text 'Beranda', 'Menu', and 'Login'. The main content area is divided into three columns:

- Smoothie**: Describes smoothies as a mix of fruits, vegetables, and liquids like water or juice.
- Kue Kukis**: Describes kue kukis as a type of Indonesian cookie made from flour, sugar, and butter.
- Macam-macam smoothie**: A list of six smoothie types: 1. Smoothie Apel, 2. Smoothie Blueberry, 3. Smoothie Strawberry, 4. Smoothie Pisang mix Blueberry, 5. Smoothie Mangga, and 6. Smoothie Buah Naga.

On the left side, there's a sidebar with the heading 'Jus' and a short description of fruit juice.

The screenshot shows a login page with a large 'institut teknologi del' logo at the top. Below the logo, the text 'We Need To Verify Your Identity' is displayed in bold. A form below the text contains a 'Type your email here' placeholder and a 'Send' button.

The screenshot shows a webpage for 'PERTAMA'. The background features a scenic view of a lake and mountains. The main content area has a dark grey header bar with 'Beranda' and 'Daftar Pesanan' buttons. Below the header, there are two sections:

- Mie Gomak Makanan Berkualitas**: Describes Mie Gomak as a traditional Indonesian dish from North Sumatra.
- Pecel Lele Makanan dengan Bumbu Kacang**: Describes Pecel Lele as a traditional Indonesian dish from Tapanuli Utara.

To the right of these sections is a sidebar with a list of traditional Toba dishes:

- Ombus-ombus
- Ongol-ongol
- Klepion
- Lampet
- Pohul-pohul
- Sasagun

The screenshot shows a registration form with a 'institut teknologi del' logo at the top. The form includes fields for First Name, Last Name, Birthday, Gender (Male/Female), Hobby (Reading, Singing, Watching, Dancing), Address, and Program (Teknologi Komputer). There are also 'Sign Up' and 'Submit' buttons.

UI/UX

LOGO



POSTER



THANK YOU

That's my portfolio so far.

