

# MOHAMED NABIL MOHAMED SALEH

Software Developer & Mechatronics Engineer

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## Summary

A second-year Mechatronics Engineering student at New Cairo Technological University, with a Distinction in the first academic year. Skilled in software development, embedded systems, control systems, and automation. Experienced in programming training, desktop and mobile application development, and robotics competitions such as **RoboCup Junior** and **ExRobo**.

## Experience

**Roxy Smart Parking** Cairo, Egypt  
**Automation Engineer Intern** 06/2025 - Present

Contributed to the development and deployment of automated systems by assisting with PLC programming, HMI interface configuration, and IoT integration for smart control solutions. Gained practical experience working with industrial automation components such as sensors, actuators, and relays, while applying engineering principles to improve system performance, reliability, and efficiency in real-world environments.

**Freelancer** World Wide  
**Software Developer** 2022 - Present

I develop mobile and desktop applications that solve real problems and provide unique features not found in typical apps. My projects include a Companies Guide app, Library Management System, Meeting Management System, Exam App, Inventory Management System, Embedded Systems Course App, Ethical Hacking Tech App, and a Line Follower Robot. These applications are designed with smart features like automation, real-time interaction, user-friendly interfaces, and offline access. They have helped many users—from students to businesses—work more efficiently. I focus on creating reliable, easy-to-use, and high-performance apps that stand out from others in the market.

**Misr International Computer & AI Academy** Cairo, Egypt  
**Software Development Instructor** 2024 - 2025

I work as a Software Development Instructor, teaching students the basics and advanced topics in Embedded Systems, Java programming, and Oracle Database. I help students understand how to write code, build projects, and use real tools used in the software industry. Not only that, but I also create lesson plans, explain technical topics in simple ways, and support students in solving problems and building their skills step by step.

## Education

**New Cairo Technological University** Cairo, Egypt  
**Bachelor of Technology - Mechatronics Technology** 10/2024 - Present

**Misr International Computer & Ai Academy** Giza, Egypt  
**High Technical School Diploma In Computer Programming** 2021 - 2024

## Skills

### Technical Skills:

Java, Arduino C, Oracle Database, Flutter, Dart, Kali Linux, Embedded System, Figma, Ethical Hacking, 3D CAD Modeling (SolidWorks)

Soft Skills: Responsibility, Team Communication, Multi Tasking, Learning Potential

## Training / Courses

**Ethical Hacking** — Course on Data Visualization and Analytics Tools, enhancing the ability to communicate data insights effectively.

**AI Course** — A course focusing on community engagement strategies and project delivery aimed at social initiatives.

# Projects

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## Green Guide

Hurghada, Egypt

10/2024 - 01/2025

Is a digital directory that helps users across Egypt find verified businesses, including shops, hotels, clinics, and clubs. The mobile app enhances accessibility by offering a fast, location-based search, clean UI, and complete business profiles with contact info, maps, and photos. Designed with scalability and performance in mind, it includes an admin panel for managing listings and potential monetization via featured promotions.

- Increased user accessibility and engagement by offering faster access, offline caching, and a clean, intuitive interface optimized for mobile.
- Expanded the reach of listed businesses through GPS-based discovery, ensuring users could find services near their current location.
- Improved visibility for local businesses, enabling them to showcase their offerings, contact information, and location in a professional mobile format.
- Streamlined the user experience, reducing friction in navigation and search through advanced filtering and category systems.
- Boosted overall platform activity, resulting in more business inquiries, higher daily active users, and an improved digital presence for companies across Egypt.

## Meeting Management

Dokki, Egypt

12/2023 - 03/2024

I developed a comprehensive Meeting Management System mobile application designed to help teams and organizations efficiently plan, manage, and follow up on meetings. The app allows users to schedule meetings with predefined agendas, invite participants, send automatic notifications, and keep a structured record of decisions and action items. Built using Flutter, the app ensures a smooth cross-platform experience on both Android and iOS devices. It also integrates calendar synchronization to prevent scheduling conflicts and provides a secure backend to manage meeting data, user roles, and file attachments. The interface was carefully designed to be intuitive, enabling users to stay organized and reduce time spent coordinating meetings manually.

- Teams reduced missed meetings and miscommunications by over 60% through structured scheduling and real-time reminders.
- Productivity improved by centralizing all meeting data, agendas, and decisions in one platform.
- User feedback was highly positive, especially for the calendar sync and automatic reminders features.
- The app helped organizations save time, stay organized, and maintain accountability through tracked attendance and assigned follow-up tasks.
- Successfully deployed and adopted by internal teams within weeks, with plans to expand to external clients.

## Inventory Management System

Cairo, Egypt

03/2023 - 05/2023

I developed a desktop-based Inventory Management System using Java and Oracle Database to help businesses efficiently track, manage, and control their stock and inventory operations. The application allows users to add and update product information, monitor stock levels in real time, generate purchase and sales reports, and set automatic alerts for low inventory. It also includes secure role-based access control for admins and staff, providing a structured and organized approach to inventory handling. With a user-friendly Java Swing interface and a powerful Oracle backend, the system ensures high data integrity, fast performance, and easy scalability for various business needs.

- Delivered a robust and reliable desktop solution that automated inventory tracking and reduced manual errors.
- Streamlined stock control, purchase orders, and sales tracking, improving overall business efficiency.
- Ensured secure and scalable data management using Oracle Database for high-volume operations.
- Enabled real-time inventory status, reducing stockouts and overstocking issues.
- Designed an intuitive Java Swing interface that allowed staff to use the system with minimal training.
- Improved reporting and decision-making through detailed sales, purchase, and stock level reports.

## Humanai

Maadi, Egypt

06/2024

Is a mobile application developed using Flutter, designed specifically to support and empower content creators. The app brings together multiple essential tools into one platform — offering an event calendar, global news feed, YouTube trends, and real-time notifications for major global events. It also features a smart chatbot assistant tailored to help content creators generate ideas, stay updated, and plan content efficiently. Humanai acts as a central hub for creators to track trends, schedule around key events, and stay inspired — all in a sleek, intuitive interface optimized for mobile use.

- Built a unified, cross-platform app that simplifies the daily workflow of content creators.
- Integrated YouTube trending data, global news, and event calendars into one centralized dashboard.
- Implemented a smart chatbot assistant to support idea generation and content strategy planning.
- Enabled real-time notifications for global events, allowing users to create timely, relevant content.
- Enhanced user productivity and creative output by minimizing the need for multiple external tools.
- Provided a scalable solution using flutter that ensures consistent performance across Android and iOS.