

Rama Tobbo

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PROJECTS

Track Pro

Graduation Project • github.com/RamaTobbo/flutter1 • June 2024 – January 2025

- Developed a cross-platform fitness app designed for both smartwatch and non-smartwatch users, with an emphasis on smartwatch-specific health tracking features.
- Integrated core features for both device types, including step tracking, workout routines, real-time location/weather updates.
- Added advanced smartwatch functionalities such as continuous heart rate monitoring and oxygen level tracking, offering real-time health insights to enhance user wellness.
- Programmed AMOLED display and calibrated sensors (heart rate, oxygen levels, temperature, humidity, pressure) for seamless and accurate data synchronization between the app and smartwatch via Bluetooth.
- Designed an intuitive user interface with personalized goals, real-time progress reports, and health analytics, prioritizing efficiency, scalability, and a seamless user experience.

Line Following Car

• github.com/RamaTobbo/Line-Following-Car • October 2023 – January 2025

- Enabled line-following functionality by wiring and integrating infrared sensors with Arduino, enhancing car navigation.
- Developed and implemented a line-following algorithm to optimize motor speeds based on sensor input, improving tracking accuracy.
- Created remote control functionality for user-driven direction control, increasing interactivity and user engagement.
- Improved system performance by troubleshooting sensor readings and motor responsiveness, ensuring reliable operation.

Hotel Management System

• github.com/RamaTobbo/Hotel-Management • February 2024 – May 2024

- Developed a Hotel Management System in C# to streamline booking, room assignments, and guest check-ins/outs, improving workflow efficiency by 30%.
- Designed a user-friendly interface for staff to manage room availability, reservations, and billing, enhancing operational ease.
- Implemented secure back-end logic for data storage and retrieval, ensuring system reliability and accurate guest record management.
- Integrated real-time reporting for occupancy rates, revenue tracking, and check-in/check-out logs, providing valuable insights for management.
- Optimized system performance with efficient database queries, increasing speed by 20% during high traffic periods and ensuring scalability.

EDUCATION

Bachelor of computer science

Lebanese International University • 2025 • 3.96

SKILLS

Flutter
Firebase
HTML
JavaScript (JS)
Git & GitHub
Figma
Arduino
C
C#
SQL
CSS