# ABOELKASEM ELSAYED

## FLUTTER DEVELOPER | COMPUTER SCIENCE STUDENT

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## SUMMARY

Computer Science student and aspiring Flutter Developer with hands-on experience in mobile app development, robotics systems, and problem-solving. Committed to creating functional, user-centred applications and continuously improving technical and teamwork skills.

## EXPERIENCE

**Programming Contest Participant – ECPC**                                    **2024**
- Practised competitive programming and solved algorithmic challenges.
- Collaborated in a team to solve complex problems under time pressure.
- Improved skills in data structures, logic design, and optimisation.

## SKILLS

Programming:
- C++
- C
- C#
- Dart
- JavaScript

Mobile Development:
- Flutter
  - Provider

Tools:
- Git
- VS Code
- Firebase
  - Auth
  - Firestore
- Cloudinary API
- REST APIs - Dio

Soft Skills:
- Problem-solving
- Debugging
- Communication
- Team Collaboration

## EDUCATION

**Bachelor of Design in Process Engineering**                    **Sep 2023- Jul 2027**
Engineering University
- Relevant coursework in Process Design and Project Management.

## ADDITIONAL INFORMATION

- **Languages:** English: A2 Level

## PROJECTS

**WALL•E – Smart Waste Robot**                                                **2025**
- Built an autonomous robot using ESP32, IR sensors, and servo motors.
- Developed logic for path tracking and automated bin collection.
- Reduced manual operations by implementing full robotic handling.

**News App – Real-Time News Reader** <u>News App</u>                          **2025**
- Built a Flutter app that fetches and displays news from a public API (e.g., NewsAPI).
- Enabled category filters like Sports, Technology, Health, and a global country selector.
- Designed a responsive UI with clean navigation, pull-to-refresh, and dark mode support.
- Used Dio (or HTTP) for API integration and implemented robust error handling.
- Added search functionality and user authentication (email + Google sign-in).

**ToDo App – Task Manager**  <u>ToDo App</u>                                    **2025**

- Built a Flutter-based to-do list application for managing daily tasks.
- Implemented add, delete, and check/uncheck functionality with real-time UI updates.
- Used setState for basic state management and maintained persistent task data.
- Focused on clean design and ease of use to improve the productivity experience.

**UniChat – Anonymous University Chat App**  <u>UniChat</u>                **2025**

- Developed a full-featured Flutter app designed for anonymous communication between university students.
- Implemented secure authentication (email/password) with role-based access: Doctor, Admin, and Member.
- Enabled anonymous group chats where only admins and doctors can see the sender's identity.
- Added group voting system and material attachments tab for academic resources.
- Built responsive UI supporting both light and dark modes with a modern, clean layout.
- Used Firebase (Auth, Firestore, Storage), Cloudinary for media, and Provider for state management.