Ali Abdulrahman Al-Zaidy
Mechatronics Engineer | Mobile App Developer

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SUMMARY

Dedicated Mechatronics Engineer and Mobile Application Developer Specializing in Flutter. Capable of building responsive, high-performance cross-platform apps. Proficient in state management, Clean Architecture, OOP core concepts and more. Proven track record of delivering quality applications across various domains. Strong problem-solver with excellent teamwork, analytical, and troubleshooting skills. Capable of providing high quality engineering services. Proficient in 3d design and modeling, analysis, and design of efficient systems along with optimal solutions to existing system issues.

EDUCATION

Bachelor of Mechatronics Engineering   **Sana'a University**   *09/2019 - 08/2023*

WORK EXPERIENCE

Mobile app – Flutter Developer   **Tharawat Finance & Investment Company**   *04/2025 - Present*
- Maintain and develop two digital wallet mobile applications using Flutter, targeting both Android and iOS platforms
- Reduced app exceptions and significantly increased crash-free sessions, leading to improved app stability
- Designed and implemented a fully custom deferred deep linking solution, replacing Firebase Dynamic Links for more control and flexibility
- Optimized app performance by reducing unnecessary network requests, contributing to lower server load and improved scalability
- Improved UI/UX with a focus on responsive design, enhancing user satisfaction across a range of devices.
- Delivered new features with enhanced algorithms and ensured adherence to clean architecture and readable, maintainable code standards
- Actively contributed to code reviews and collaborated with cross-functional teams to drive product quality.

Mobile app Developer   **Freelancing**   *02/2024 - Present*
- Continuous troubleshooting and maintenance resulting in a significant increase in apps stability with 98% crash-free sessions
- Developing really responsive apps that fit well with almost 96% of devices of the target platforms
- Build beautiful User Interfaces to engage with most of users and get about 90% approval rate
- Build and enhance User Experiences which ensure increasing user satisfaction by 20 – 30 percent

IT Support Specialist   **Freelancing**   *10/2018 - Present*
- Installed and configured operating systems and a variety of software for over 100 clients.
- Diagnosed and resolved software-related issues, reducing downtime and ensuring optimal system performance.
- Provided personalized training to clients, improving their proficiency in using devices and software.
- Adjusted and customized device settings to meet specific user requirements, enhancing overall user satisfaction.
- Delivered consistent and reliable technical support to individuals and small businesses, earning a 95% client satisfaction rate.

Scientific Subjects Tutor   **Private Tutor**   *01/2022 – 04/2025*
- Teaching Mathematics to elementary and high school students
- Teaching Physics to high school students

CORE SKILLS

Team work and Collaboration, Problem solving, Time Management, Excellent Analytics and reasoning, Troubleshooting, Creative Thinking, Engineering sense, Self-Learning

TECHNICAL SKILLS

- **MCUs and PLC:** Arduino, ESP, STM32, PIC, PLC
- **Engineering Tools:** MATLAB, SolidWorks, Proteus, Robotics Simulators
- **Engineering Technologies:** CNC Machines, 3D Printers, Industrial Machines and Systems
- **Mobile Development:** Dart, Flutter, Maps Integration, Localization, Pagination, Animations, adaptive layouts & responsive design, RESTful APIs, GraphQL
- **State Management**: Bloc**,** Provider, Riverpod, GetX
- **Architectures & Design Patterns:** MVVM, MVC, Clean Architecture, SOLID Principles, OOP, Common Design Patterns
- **Database & Local Storage:** Firebase Cloud Firestore, Supabase, ObjectBox, SQLite, Hive, isar, SharedPreferences
- **Programming & Core Concepts:** Agile Development, Data Structures & Algorithms, Design Patterns, SOLID Principles, OOP
- **UI/UX & Design Tools:** Material Design, Cupertino Design, Figma, Adobe XD, Wireframing & Prototyping
- **Development Tools & DevOps:** Git/GitHub, Docker, CI/CD, Deployment & Release Management
- **Backend & API:** Node.js, Express, MongoDB

TRAINING & INTERNSHIPS

- **In-factory training as a Mechatronics Engineer**   **Yemen Dairy & Food product**   *02/2023*
- **Mechatronics Engineering Training**   **Shaphaco pharmaceutical industries**   *05/2022*

FEATURED ENGINEERING PROJECTS

- Simple 2D CNC Plotter machine prototype with relatively high precession   *02/2025*
- CNC Laser Machine upgrade and control improvements   *10/2024*
- Zeta Robot (A humanoid AI robot operating with ROS) Graduation Project   *08/2023*
- AI Gesture Controlled Micro vehicle   *11/2022*

FEATURED Software

- Flutter Tutorial Overlay (a Flutter package for building interactive tutorials)   *04/2025*
- Safeena Cashier (a cashier application for orders management and printing)   *04/2025*
- Youtuber (YouTube Videos and playlists downloading app)   *12/2024*
- Notes Bloc app (notes taking app, live app, available on Uptodown app store)   *10/2024*
- Story app (live app, available on Google Play)   *09/2024*
- Pregnant Care app (an app for monitoring pregnant and embryo health parameters)   *05/2024*
- Weather app (a weather state app)   *04/2024*

LANGUAGES

Arabic: (Native), **English:** (Proficient/Upper-intermediate)

INTERESTS

Science and Technology, Reading, History, Psychology

REFERENCES

[Available on Request]