

## HALİL İBRAHİM DİREKTÖR

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### Professional Experience

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#### **Woma Reklam Tasarım Dekorasyon Ticaret A.Ş.**

Software Team Lead

İstanbul/Türkiye

February 2024 – Present

- Overseeing architectural decisions and ensuring the scalability and robustness of both backend and mobile applications.
- Leading project planning, sprint reviews, and ensuring best practices in code quality and deployment strategies.
- Mentoring junior developers, managing cross-functional team collaborations, and driving continuous improvement in development processes.

#### **Woma Reklam Tasarım Dekorasyon Ticaret A.Ş.**

Backend Developer

İstanbul/Türkiye

December 2023 – February 2024

- I'm currently developing services & micro services via Spring Boot and Hibernate.
- Also developing custom native mobile applications for projects undertaken by the company.

#### **Onder Lift Celik Mak.**

Research and Development Engineer

Manisa/Türkiye

April 2023 – November 2023

- Integrated an STM32F103RCT6-based custom-designed board into an IoT system. The IoT integration focused on enabling data transmission via WiFi while ensuring bidirectional data security.
- Developed server-side scripts using Node.js to handle requests from the electronic board based on STM32F103RCT6, establishing a connection to the database.
- Created a mobile application for end-users using Android and Swift in an IoT-based project. The app facilitates communication with the server-side script, allowing users and company employees to access and control the machine remotely.
- All data, including data of file types, is stored on a dedicated server using MongoDB and GridFS technologies to be managed in desired formats.
- Developed desktop application for custom hydraulic calculation based Java & JavaFX technologies. Including data synchronizing (calculated hydraulic unit .pdf and .xlsx files) with docker volume and MySQL server.

#### **Onder Lift Celik Mak.**

Intern Research and Development Engineer

Manisa/Türkiye

January 2023 - April 2023

- Conducted research and design studies on Autonomous Guided Vehicle (AGV) and Autonomous Mobile Robot (AMR).
- Developed simple AMR simulations using ROS and Python.
- Engaged in IoT projects using MQTT and STM32F103RCT6. Tested master-slave and broker techniques on designed server-client setups.

#### **Lebara Mobile**

Backend Developer – Mobile Developer

England/UK

January 2022 - June 2023

- Worked on optimizing applications designed with Java's Multithreading structure.
- Explored Version Control systems and version management.
- Conducted research on data transfer and data security using JDBC and MariaDB.
- Participated in server-side API development using REST API.

- Explored cloud library systems with Maven.

## **Technical Skills**

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### **Embedded Systems**

<ul style="list-style-type: none"> <li>• USART</li> <li>• I2C</li> <li>• SPI</li> <li>• Wireless (Bluetooth, WiFi, LoRa)</li> <li>• High-Speed (Ethernet)</li> <li>• Network (TCP/IP, UDP)</li> <li>• CAN-Bus</li> </ul>	<ul style="list-style-type: none"> <li>• C, C++</li> <li>• FreeRTOS</li> <li>• Zephyr</li> <li>• lwIP</li> <li>• wolfSSL</li> </ul>	<ul style="list-style-type: none"> <li>• STM32Cube IDE</li> </ul>
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### **RESTful & API Development**

<ul style="list-style-type: none"> <li>• Java</li> <li>• JavaScript</li> </ul>	<ul style="list-style-type: none"> <li>• Spring Boot</li> <li>• Spring Boot Security</li> <li>• Hibernate</li> <li>• Node.js</li> <li>• Sequelize</li> <li>• Multer</li> <li>• Axios</li> </ul>	<ul style="list-style-type: none"> <li>• IntelliJ IDEA</li> <li>• WebStorm</li> <li>• Postman</li> <li>• Swagger</li> </ul>
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### **Mobile App Development**

<ul style="list-style-type: none"> <li>• Java</li> <li>• Swift</li> </ul>	<ul style="list-style-type: none"> <li>• XML Layout</li> <li>• SwiftUI</li> <li>• Network (Volley, OkHttp, Retrofit)</li> </ul>	<ul style="list-style-type: none"> <li>• Android Studio</li> <li>• XCode</li> <li>• Apple Developer</li> </ul>
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### **Server & Database Management**

<ul style="list-style-type: none"> <li>• MySQL</li> <li>• MongoDB</li> <li>• PostgreSQL</li> </ul>	<ul style="list-style-type: none"> <li>• Docker</li> <li>• Portainer</li> <li>• PhpMyAdmin</li> <li>• MongoDB Compass</li> </ul>
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## **Education**

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### **Manisa Celal Bayar University**

Bachelor of Mechatronics Engineering (3,32 GPA)

Manisa/Türkiye

2019 – 2024

- Thesis Study on Industrial IoT Applications for PLC-Based Factories.
- The main objective of my thesis project was to ensure that users who purchase the PLC system can easily control the data by transferring the data obtained from the PLC-based system via RS485 to the main servers through a RESTful service developed with Node.js.

## Projects

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### GelKurye

Türkiye  
2024

- Developed a robust real-time order tracking service for e-commerce websites using Java Spring Boot, emphasizing secure and efficient data transmission to enable instantaneous updates on order status.
- Concurrently, crafted a feature-rich Android application using Pure Java, focusing on optimizing performance and responsiveness to enhance the overall user experience. This application encompasses key functionalities such as product browsing, order placement, and account management, providing users with a seamless interaction with the e-commerce platform.
- Additionally, designed and implemented an iOS mobile application using Swift, ensuring compatibility with Apple devices and delivering an intuitive and visually appealing interface. The iOS app enables both customers and company employees to access and control the e-commerce platform effortlessly.
- Collectively, these developments form a cohesive e-commerce ecosystem, combining real-time order tracking, cross-platform accessibility, and a user-centric mobile experience for enhanced convenience and control.

### TFEncryption

Türkiye  
2021

- Developed a chat application TFEncryption using Cactoos, Concurrency and WebRTC technologies, enabling users to send encrypted files and text based on selected encryption methods (SPN, SHA256, MD5).
- Designed the interface by using JavaFX.

### Teknofest International Unmanned Aerial Vehicle Competititon

Avionics Responsible of Fixed-wing Category

Türkiye  
2020

- Bore the responsibility of entire electronic and communication infrastructure of the designed aircraft by our Özkul İHA team.