HALIL İBRAHİM DİREKTÖR

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Professional Experience

Onder Lift Celik Mak.

Manisa/Türkiye

Research and Development Engineer

April 2023 - Present

- 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.

Lebara Mobile England/UK

Backend Developer – Mobile Developer

January 2023 - 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.

Onder Lift Celik Mak.

Manisa/Türkiye

Intern Research and Development Engineer

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.

Technical Skills

 C, C++, micro C, CSC C (Ring Buffer for UART, json-c, MariaDB, IwIP, FreeRTOS, Zephyr) 	•	Fortran	•	Intellij Idea	•	WebStorm
 Java 	•	SQL	•	CLion	•	Scene
(JavaFX, JDBC, Swing, OpenCV)						Builder
Python	•	TSQL	•	STM32 Cube IDE	•	Postman
(OpenCV, PyAutoGui, Threading, Tkinter,						
Pandas, Seaborn, MatPlot, Scikit-learn,						
PyWhatkit, Openpypxl)						
 PHP (Laravel) 	•	MariaDB	•	Github Desktop	•	DataGrip
 JavaScript 	•	MongoDB	•	Android Studio	•	PyCharm
(GridFS, MongoDB, Mongoose, Express)						
 Matlab 	•	MySQL	•	MongoDB Compass		

Education

Manisa Celal Bayar University

Bachelor of Mechatronics Engineering

Manisa/Türkiye 2019 - 2023

Projects and Thesis

TFEncryptionTürkiye
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 (IHA) Competition

Türkiye 2020

Avionics Responsible of Fixed-wing Category

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

Manisa Celal Bayar University

Manisa/Türkiye

2023

• Thesis Study on Industrial IoT Applications for PLC-Based Factories.