

# Furkan Uruk

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## Education

<b>University Of Bremen</b> Master of Science Management Information Systems	Germany,DE Oct. 2024–July2026
<b>European University Of Lefke</b> Bachelor of Arts in Management Information Systems English preparatory school completed	KKTC, TR Sep. 2018 – Aug2023
<b>Yahya Kemal Beyatlı Anatol an High School</b> High School	Batman, TR Aug. 2012–May2016

## Experience

<b>BIOSYS Biomedical Eng. Intern</b>	ODTU Teknokent	June 2022 – Present Ankara, TR
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- Using Embedded C programming language developed the testing processes of the device and implemented various enhancements to increase efficiency
- Developed a on real-time graphical visualization of data obtained from the neuromonitor device using Python.
- Employing the Qt framework, I developed a user-friendly interface and facilitated the simultaneous display of neuromonitor data on the interface for efficient monitoring.
- I conducted various improvements and tests on respiratory devices. These improvements aimed to enhance device reliability, improve patient comfort, and optimize treatment processes.

<b>EUL IT Club Member</b>	European University Of Lefke	Sep. 2018 – Aug 2023 KKTC Lefka, TR
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- Played a pivotal role in various projects, including the development of a Raspberry Pi-based arcade machine and the creation of an AI-powered drone with tracking capabilities.
- Led the team in creating modern arcade machines by setting up electronic circuitry, configuring Linux environments, and programming retro games for display on screens
- Contributed to the design and implementation of an AI-powered drone with autonomous tracking capabilities using Python programming language and advanced algorithms.

<b>Aspire Institute-Leadership Training and Development</b>	Apr 2022 – Edx , Harvard
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- Participated in Harvard-supported education through the Aspire Institute, focusing on "Exercising Leadership: Foundational Principles.
- Applied leadership concepts learned in the program to enhance problem-solving abilities and foster effective teamwork in the workplace.

## Technical Skills

Programming Languages: Swift, Python, Embedded C, C/C++, SQL, Java, HTML/CSS  
Mobile Development: iOS Development (Swift, SwiftUI), MVVM Architecture, CoreData, State Management  
Backend & Cloud Technologies: Supabase, Firebase, RESTful APIs, Authentication & Data Synchronization  
AI & Data Technologies: OpenAI API, TensorFlow, Pandas, NumPy, NLTK  
Frameworks & Platforms: SwiftUI, Qt, Unity, .NET, Matplotlib, Seaborn,React Native  
Databases: MySQL, SQLite, CoreData  
Developer Tools: Xcode, Git, VS Code, Visual Studio, PyCharm, MPLAB X IDE, Eclipse  
Embedded & Hardware:Raspberry Pi, CMSIS, Linux-based Embedded Systems

## Projects

Neuromonitor and Humedifier Medical Device Development  
Arcade Machine|Embedded C, Raspberry Pi, Linux,Python AI-  
Powered Chatbot Development | Python, TensorFlow, NLTK

## **Lovemoe: Couples Love Note App (iOS)**

- Developed an iOS couple-focused relationship application that enables partners to share love notes, emotional messages, and meaningful interactions.
- Designed modern, clean, and intuitive user interfaces using SwiftUI, aligned with Apple Human Interface Guidelines.
- Implemented MVVM architecture to ensure scalable, maintainable, and testable code structure.
- Integrated OpenAI API to generate AI-powered emotional insights, love note suggestions, and relationship-focused content.
- Used Firebase for secure authentication, cloud-based data storage, and real-time synchronization.
- Optimized state management and performance to deliver a smooth and responsive user experience.
- Maintained clean, modular codebase using Git and modern iOS development best practices.

## **MoodiGo: AI Planner & To-Do (iOS Application)**

- Developed an AI-powered iOS productivity application enabling users to plan, prioritize, and manage daily tasks.
- Implemented MVVM architecture to ensure clean separation of UI and business logic.
- Integrated OpenAI API to generate intelligent task planning, prioritization, and personalized schedules.
- Used Supabase for authentication, cloud data storage, and real-time data synchronization.
- Implemented CoreData to support offline-first task management.
- Designed modern, minimal, and user-focused interfaces following Apple Human Interface Guidelines.
- Managed asynchronous data flow and API communication using RESTful services.
- Maintained clean, modular, and scalable code using Git.