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Denizli, Merkezefendi

Zeki Baklan

Electronics & Communication Engineering

About Me

I graduated from Kocaeli University, Department of Electronics and Communication Engineering. My first project was a robot car control from iOS devices. After this project, I participated in various trainings, hackathons, bootcamps, and events. In the future, I want to improve myself by gaining experience in companies with a large user base and taking part in large-scale projects.

Experience and Skills

- MVVM, Clean Code, iOS Engineering, UI/UX, Architecture, Figma, Testing, Big Data, GitHub
- Image Processing, AI, Machine Learning, Embedded Systems, Analog & Digital Communication
- UART, SPI, I2C, CAN, RS232, RS485, RFID, Fiber
- Python, C, C++, C#, CST, Swift, MatLAB, Altium, Firebase, MySQL, PHP, Figma, CSS

Employment

VESTEL Electronics

Aug, 2024 - Sep, 2024

Embedded System Software Intern (Electric Vehicle Charging)

VESTEL Electronics

Jul, 2024 - Aug, 2024

System Design Engineering Intern (Electric Vehicle Charging)

VESTEL Electronics

May, 2020 - May, 2021

Maintenance (Production Line)

Projects

License Plate Registration

Python, OpenCV, OCR, NumPy, imutils, Contour Analysis, Image Processing, ROI, Tesseract, CSV

Dual Band MIMO Antenna

CST Studio, Coupling, MIMO, ECC, DG, S-Parameters, IEEE 802.11ac, 5G, RF, dB, UGB, FR-4

Karaca Concept App

SwiftUI, UI/UX, Payment Method, Order System, MapKit, Firebase Firestore, Notifications

Temperature Control System.

C/C++, Assembly, Altium, PCB, MSP430, PWM, ADC, Sensors, Microcontroller

iOS Robocar

Swift, C, Xcode, MVVM, Firebase Realtime Database, Altium, STM32F103, ESP8266, UART

PMOD CLP

VHDL, Vivado, Xilinx, FPGA, Basys 3 Board, FSM (Finite State Machine), UART, FPGA, RTL

720 KW EVC DISPENCER (Hardware / Software)

C/C#, e2 Studio, Debugging, HW/SW Testing, RS232, UART, SPI, I2C, CAN, RS485, RFID, Fiber-Optic, Serial Comms, ADC, PWM, Timer, Interrupts, EEPROM, Renesas RX/RL78/RH850/Synergy (HAL), KDC, PIC16F877A, ATmega16/328P, IR Sensor, Power Electronics, Cooling, AGT, ZWCAD

Unmanned Vehicles(UUV , URV)

UUV : STM32F4 (ARM Cortex-M4) with I2C, USB, BAR30 24-bit ADC, PWM, Fuzzy Logic, and PD/PID control for underwater vehicles

URV : Python, OpenCV, and NumPy for grayscale conversion, thresholding, contour analysis, ROI tracking, marker detection, rotation angle estimation, wheel revolution counting, image processing, and frame-based analysis

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Education

Kocaeli University <i>Electronics and Communication Engineering</i>	2021 - 2025
Ege University <i>Electronics Technology</i>	2014 - 2018
G�lay Kaynak Technical High School <i>Electrical and Electronics Technology</i>	2010 - 2014

Certificates

Coderspace <i>Vestel Mobilite Yol Haritası, Garanti BBVA - Teknoloji Serisi, Garanti BBVA - Serdar Kuzuo�lu Seminer, Garanti BBVA - Siber G�venlik E�itimi, Garanti BBVA - RPA E�itimi, Garanti BBVA - Yapay Zeka E�itimi, Cenoa Freelancer Bootcamp</i>	May, 2025
Credo Academy <i>SwiftUI Masterclass</i>	Oct, 2023
BTK Akademi <i>SwiftUI ile iOS Mobil Geli�tirme, Swift ile iOS Programlama</i>	Sep, 2023
London App Brewery <i>iOS & Swift - The Complete iOS App Development Bootcamp</i>	Aug, 2023
Turkcell <i>Digital Okuryazarlık, Mobil Uygulama Kullanımı, Sosyal Medya Kullanımı, Swift ile iOS Programlama 101-201-301</i>	Jun, 2023
Bilgei� <i>Swift ile iOS Programlama</i>	Mar, 2023
Microsoft <i>Sertifikalı Microsoft Yenilik�i E�itmen</i>	Mar, 2022
Bissatek <i>Yapay Zeka ve Digital Marketing, Yapay Zeka ve Gelecek Teknolojisi</i>	Dec, 2021
Elginkan Vakfı <i>Nesneye Dayalı Programlama - PYTHON, Zaman Y�netimi, Ki�ilik Analizi ve �atı�ma Y�netimi, İletişim Becerileri</i>	Jan, 2022

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Motivation Letter

I have been studying in the field of Electrical and Electronics for about 12 years. With my university life, I added the fields of Communication and Software to this knowledge. Most importantly, I have engineering principles and work ethics. I am a cheerful person who enjoys developing himself and his country. I enjoy working in the fields of electronics and software.

I did my internships in the R&D and Software departments. I like working in the fields of Hardware / Software and following the projects from beginning to end. I am both self-taught and educated, so to speak. I have an enterprising nature; I am eager and curious to learn about a subject I do not know.

My motivation is that there is nothing impossible in the world.

My goal is to integrate embedded systems with artificial intelligence and make them compatible with mobile devices. Because both are at the center of our lives.

Why shouldn't it be possible to control a Unmanned Aerial Vehicle with my phone?..

Hobbies

Folk dance, Motorcycle, Chess , Algorithm

Languages

English : B2 (Upper-Intermediate)

Turkish : Native

Clubs & Societies

IEEE KOU - Member

KOU DEV - iOS Developer

KOU SARSILMAZ IHA - Advisor

Rise In SOLANA Hackathon - App developer

References

Elif Kandiran

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Embedded System from BAYKAR

Emre Kahraman

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Senior Systems Engineer from VESTEL

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