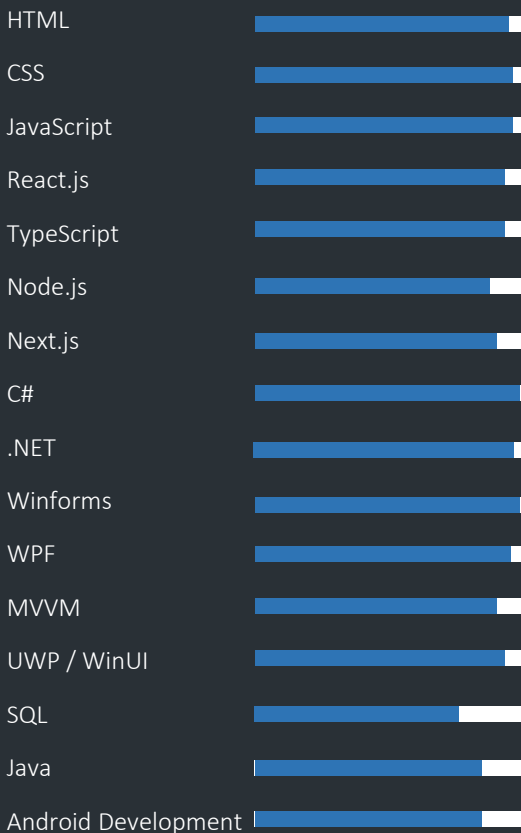# EMRE KOÇ
Software Engineer

ABOUT ME

I'm a double-majored Engineer. As you can see the details in my resume, I got experience in a lot of working areas.
I have worked on Embedded Systems, so I know most of the Communication Protocols. I developed small-scale mobile applications. I designed HMI GUI's. I developed large-scale Desktop Applications (Winform, WPF) that communicates with Embedded Products with variant Communications Protocols. I developed Websites with React.js. GUI designs, Desktop Application Developments (Winforms/WPF) and React.js developments are my most enjoyed experiences.

SKILLS

- HTML
- CSS
- JavaScript
- React.js
- TypeScript
- Node.js
- Next.js
- C#
- .NET
- Winforms
- WPF
- MVVM
- UWP / WinUI
- SQL
- Java
- Android Development

WORK EXPERIENCE

SOFTWARE ENGINEER (09/2021 -)
Freelance
• Developed Remote Valve Control System via Bluetooth. (Arduino & Android Mobile App)
• Developed Personal Portfolio Website. (React.js)
• Developed Admin Dashboard Panel.(2x) (React.js)
• Worked on a WinUI3 project, also used AppCenter.

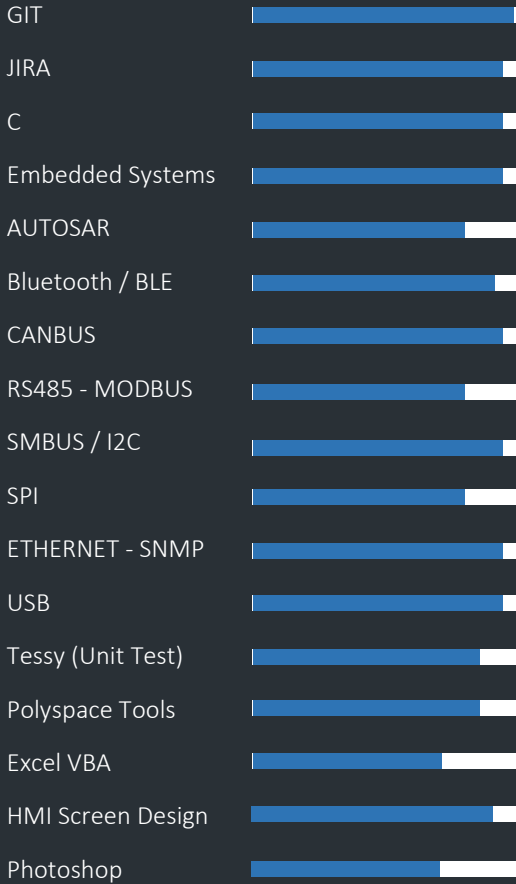### SOFTWARE ENGINEER (08/2019 -10/2021)
Aspilsan Enerji AŞ.
• Developed a Battery Mass Production Desktop Application(C#, .Net, Winforms).
   - Bootloader Software Updates of MCU's.
   - Application Software Updates of MCU's.
   - Config Files Updates for Batteries.
   - Gas Gauge IC's Data Updates.
   - Gas Gauge IC's Software Updates(.srec, .senc, .gg, .rom).

• Developed a large-scale Battery Management Desktop Application (C#, .Net, Winforms(v1), WPF (v2)).
   - Has all of the functions of Battery Mass Production Application.
   - A lot of functionality for Battery Managements like; Data Monitoring, Data Visualization, Data Logging and Data Management(Parameter changing, State changing) etc...
   - Password required admin windows.
   - Works with all of the Batteries and some of the different kinds of Products of the Company.

• Designed an HMI Display screen for a Battery Cabinet Product. (Photoshop Design - UART Communication)
• Designed an E-Paper Display screen for a Smart Battery. (Canbus Communication)
• Took part in the development of a USB to Smbus-Canbus-Modbus-UART data transfer module's Software.
• Worked on a lot of Battery Fuel Gauge IC's.
   - Reading/Writing data of IC's.
   - Uploading all of the IC's files(.srec, .senc, .gg, .rom, etc.) to IC externally.
• Developed a Smart Battery Embedded Software that has it's own HTTP server(data modification with using AJAX) and also has Ethernet, SNMP, Canbus communications.

SOFTWARE ENGINEER (01/2019 - 07/2019)
Kayseri ve Civarı Elektrik Türk A.Ş.
• Developed a mobile application that directs the company's support teams to defective electricity meters regions. (Used on Android devices of the company). The communication was over the company's local network. Used Java and Android Studio.
• Wrote excel VBA macros that format and document the data of electricity meters from remote readings.

EMRE KOÇ
Software Engineer

SKILLS

GIT
JIRA
C
Embedded Systems
AUTOSAR
Bluetooth / BLE
CANBUS
RS485 - MODBUS
SMBUS / I2C
SPI
ETHERNET - SNMP
USB
Tessy (Unit Test)
Polyspace Tools
Excel VBA
HMI Screen Design
Photoshop

CONTACT

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+90 554 136 11 16

kochhemre@gmail.com

SOFTWARE ENGINEER (09/2018 – 01/2019)
Kayten Technology
• Took part in Autosar projects of Porsche, Daimler, and Ford companies. (I was in Germany for 1 month for project works)
• Developed a Bluetooth Module (Embedded Software) that communicates the vending machine and the mobile application (for FUJI Company). All of the data transfers were encrypted.

JUNIOR SOFTWARE ENGINEER (03/2017 – 01/2018)
Kayten Technology
• Unit testing for Embedded Projects with Tessy Tool. (Automotive Projects)
• Polyspace Bug Finder and Polyspace Code Prover tests for Automotive Projects.
• Small-scale Embedded Software projects. (SPI, Bluetooth)
• Small-scale Raspberry Pi projects. (WebRTC, Azure Stream)

INTERN (07/2015 – 08/2015)
ARSU

INTERN (07/2014 – 08/2014)
Envotek

EDUCATION

COMPUTER ENGINEER (DOUBLE MAJOR) (2013-2016)
Erciyes University
I have graduated from my double major in 3 years.

ELECTRICAL & ELECTRONICS ENGINEER (2011-2016)
Erciyes University
I have graduated with **3,75/4** score.

HIGH SCHOOL (2007-2011)
Hisarcıklıoğlu Fen Lisesi
Graduation Score: 86/100

LANGUAGES

English
- Reading
- Writing
- Speaking

Turkish
- Native Language