



# EMRE DUR

ELECTRICAL - ELECTRONICS ENGINEERING STUDENT

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📅 **Date Of Birth:** 03/06/2000

## EDUCATION

**HIGH SCHOOL** 2015 - 2019  
**Elazığ Çubuk Bey**  
**Anatolian High School**

**GPA:**  
**90,33** / 100

**UNIVERSITY** 2020 - Present  
**Gazi University**  
Faculty of Technology  
Electrical - Electronics Engineering  
(3rd Year)

**GPA:**  
**3,73** / 4

## CAPABILITIES

- **Embedded Systems and Microcontrollers** (AVR, ARM, Atmel, ESP32/8266, STM32, etc.)
- **Software and Hardware** (C, Python, Arduino, Raspberry Pi, Proteus, Multisim, Altium Designer)
- **Hardware Level Cloud Connection and Databases** (Wi-Fi, Google Firebase)
- **Other Computer Skills** (Microsoft Excel-Word-Powerpoint, Adobe Photoshop, etc.)
- **Project Management** (Project Files, Work Packages and Budgets etc.)

## LANGUAGES

**English**  
YDS 2019/3: **80**

## CERTIFICATES

**Advanced Excel Course** – İstanbul İşletme Enstitüsü  
February 2021 (Certificate Number: 060212670018)

## REFERENCES

**Emin Uysal**  
Pi Savunma ve Havacılık  
e.uysal@pisavunma.com.tr  
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## EXPERIENCES

### INTERN

#### Pi Defence and Aerospace (July 2021 - September 2021)

- Developed cloud database connected firmwares for AVR and ESP32 microcontrollers with desired hardware for medical projects of the company.
- Designed UIs for projects using Nextion HMI displays.
- Examined material requirements for projects and managed the related inventory.
- Involved in preparation and editing of documents and presentations.

### CANDIDATE ENGINEER

#### Pi Health Technologies (September 2021 - Present)

- Worked on STM32 microcontrollers for medical and measurement devices and other related products.
- Designed basic PCBs for projects using Altium Designer.
- Used Python and OpenCV for combined QR Code Scanner and Web Scraper / Rest API SBC Kiosk project.
- Prepared Project Files for KOSGEB Ar-Ge/Ür-Ge and TÜBİTAK 1507/1501 programs.

## PROJECTS

**sEMG Based Migraine Therapy Device** ([Ongoing Project](#))  
Muscular tension will be detected based on sEMG measurement and suitable electrotherapy method will be applied to reduce migraine. sEMG system will be developed using active filters and instrumentation amplifiers. Whole system will be controlled with a STM32 microcontroller.

**ESP8266 Controlled Smart Wall Outlet** ([Personal Project](#))  
Designed a smart wall plug using ESP8266 and a few components (Relays, Buttons, LEDs etc. Data on the MCU was controlled by implementing a constantly synchronised cloud control system with Google Firebase RTDB.

**UV Air Disinfection System Design** ([Company Project](#))  
Environment variables measurement and electronic fan control system was designed using ESP32 and Nextion HMI.

**HES Code/Vaccine Card Scanner** ([Company Project](#))  
(Click on text for website)  
Custom Kiosk system was designed using Python and OpenCV to scan Health Government QR Codes and displayed the received results on Tkinter based GUI. Project was implemented and tested later on a Raspberry Pi.