

EKREM TURAN FIRAT

Power Electronics Design Engineer Candidate

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Education

Bachelor's Degree in Electrical and Electronics Engineering | Sivas Cumhuriyet Üniversitesi

2024 – Ongoing

- Entered the university as the top student in the department based on points, Grade point average: 3.27
- IEEE Student Branch PELS/PES Committee Chairman

Electrical-Electronics Technology Technical Degree | Cezeri Green Technology Vocational and Technical High School

2020 – 2024

- Grade point average: 87/100
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Experience

Undergraduate Researcher | METU Power Lab | Ankara/Sivas(Hybrid)

February 2025 – Ongoing

- Working on PCB Motor and drivers.

Avionic Design Team Lead | Alpina Roket | Sivas

October 2024 – Ongoing

- Flight Control Computer and Payload Control Computer designs were made.

Comittee Chairman | IEEE SCÜ Student Branch | Sivas

Kasım 2024 – Devam Ediyor

- I served as the chairman of the PES (Power and Energy Society) & PELS (Power Electronic Society) Committee.
- Participated in international symposiums.

Electronic Design Intern | Robolink Teknoloji | Yenimahalle, Ankara

March 2022 – August 2022 | Haziran 2023 – August 2023

- PCB designs for sale on topics such as Laser CNC controllers, Stepper Motor Drivers, Pulse Generators, ESP32 were made.
- Competencies such as SMD Soldering, Oscilloscope Usage, PCB Testing stages were acquired.

Founder | Mergen Elektronik | Etimesgut, Ankara

June 2021 – Ongoing

- Personal project sharing platform | mergenelk.com
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Projects

Switched Power Supply Design (SMPS) | Mergen Elektronik

June 2024 – October 2024

- A power supply design with a 150Watt AC-DC 0-30V output range was made on a 4-layer PCB.
- [Project Documents](#)

ESP32 Based Laser CNC Motherboard | Robolink Teknoloji

June 2023 – August 2023

- PCB design for ESP32 based Laser CNCs compatible with GRBL software was made on a 4-layer PCB.

Stepper Motor Driver | Robolink Teknoloji

March 2022 – July 2022

- A PCB design was made for stepper motor control and testing on a 2-Layer PCB without requiring software or an external controller.
- [Project Documents](#)

ESP32 Developing Board | Robolink Teknoloji

Ağustos 2022

- 2 An ESP32 development board has been designed for testing ESP32 based applications within the company on a 2-Layer PCB.
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Organizations

3. Uluslararası Enerji Günleri | Emerjide Yapay Zeka Sempozyumu | SCÜ 100. Yıl Kültür Merkezi

December 2024

- I worked as a technical team member and stand attendant in the organization.
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Language Skills

English

- Listening: B1 | Reading: B2 | Speaking: B1 | Writing: B2
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Digital Skills

- Altium
- Autodesk EAGLE
- AutoCAD
- Fusion360
- Proteus
- LTspice