# UYGAR BÜYÜKKAHRAMAN

**Software Engineer**

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## WORK EXPERIENCE

**Çukurova Elektromobil** **Adana, Türkiye**
*Embedded Software Developer* Oct 2021 – Sep 2023
- Wrote two distinct telemetry systems (by myself), one based on LoRa, and another based on the SIM800L's HTTP facilties.
- The second telemetry system made extensive use of cryptography, which did cause a single major third-party dependency to be included (regarding P256 signatures).
- Participated in the software development of many other components such as the *engine control unit* and the *battery management system.*

## EDUCATION

**Çukurova University** **Adana, Türkiye**
*Bachelor of Science in Computer Engineering (GPA: 3.31)* Sep 2021 – Present
- **Thesis**: (to be written) Implementation of a realtime voxel-based path tracer.

## PROJECTS

**TeleV2**
*Çukurova Elektromobil, github.com/xor-shift/TeleV2* Oct 2021 – Oct 2022
- A telemetry system for the STM32 based on the SIM800L which was utilized by our hydrogen car.
- Communicates with a server using a custom messaging protocol with P256 signatures.

**"Stuff"**
*Unaffiliated, github.com/xor-shift/stuff* Feb 2023 – Present
- A collection of Boost-inspired C++ libraries including compile time reflection facilities.

## HONORS AND AWARDS

**Finalist in ITUACM algoComp 2021** **Online, Türkiye**
Issued by *ITUACM* Feb 2021
- Participated solo
- Placed 15th in the qualifiers, placed 14th in the finals

**Participant in Advent of Code (2022)** **Online**
Issued by *Eric et. al.* Dec 2022
- Best first-part placement of 506 on day 25, best second-part placement of 438 on day 15

**Participant in Advent of Code (2021)** **Online**
Issued by *Eric et. al.* Dec 2021
- Best first-part placement of 380 on day 16, best second-part placement of 402 on day 23

## LICENSES AND CERTIFICATIONS

**Yapay Zeka Uzmanlık Programı Uzmanlık Eğitimi (116 class hours)** ID: 71446400053292
Issued by *T.C. Sanayi ve Teknoloji Bakanlığı* Aug 2024

**Teknofest Birincilik (Hidromobil)** ID: 78558960407386
Issued by *Teknofest* Oct 2023

**Teknofest Birincilik (Elektromobil)** ID: 29074075385596
Issued by *Teknofest* Oct 2022

## SKILLS, LANGUAGES, INTERESTS

- **Languages**: Turkish (Native speaker), English (Fluent), German (Intermediate)
- **Programming**: C & C++ (been writing since middle school), Rust, Go, Zig, C#, Java, Python, JS
- **Tools**: Linux (been dailiy driving since middle school), Git, Nix, Docker, Neovim