

# Bora Girgin

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## SUMMARY

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A highly motivated and detail-oriented electrical and electronics engineering student with a strong foundation in embedded systems and IoT projects. Experienced in working with IoT, network security and various technical tools like Raspberry Pi, ESP32, STM32. Demonstrates excellent teamwork abilities, adaptability and a commitment to continuous learning in fast-paced environments.

## EDUCATION

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**Sakarya University**  
BSc. in Electrical and Electronics Engineering

Sakarya, Turkiye  
September 2022 – Present

**Biga ICDAS Science High School**

Biga, Canakkale  
September 2018 – June 2022

## PROJECTS

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### LoRa Automatic Control System

*IoT Control System*

November 2024 – Present

*LoRa Network, C++, ESP32, Raspberry Pi*

- Built an automated control system for factory automation using LoRa network
- Implemented ESP32 and Raspberry Pi for seamless industrial communication
- Developed in collaboration with Talu Textile for a TUBITAK-funded project

### Bluetooth Arduino Car Project

*Science High School Project*

April 2020 – May 2020

*Bluetooth, IR, Ultrasonic, LIDAR*

- Prototype of a space mining vehicle with moving arm, distance, line tracking and Bluetooth sensors for the robotics competition at the Science High School
- I used infrared sensor for distance, LIDAR for line tracking, electric motor for mechanical arm movement and FSR pressure sensor for claw
- The vehicle completed the missions with full success and highest accuracy

## CERTIFICATIONS

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- CoderSpace Cyber Security School Certificate
- NDG LINUX ESSENTIALS Certificate
- Ethical Hacking Course - Atil Samancioglu
- Learn C# by Developing Applications - Murat Yucedag
- C++ Courses - Faruk Tutkus

## TECHNICAL SKILLS

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**Programming Languages:** Python, C, C++, C#, ASP.NET, MS SQL, Git

**Engineering Software:** MATLAB, AutoCAD, KiCAD, Proteus, Cisco

**IoT / Embedded Tech:** ESP32, STM32, Raspberry Pi, LoRa, Linux Live Server, Arduino,

**Office Programs:** Microsoft Word, Excel, PowerPoint, SSMS