



**Position Title:** Electrical and Electronics Engineer

**Company:** Patika Robotik Arge ve Mühendislik San.Tic.A.Ş.

**Location:** Sakarya

## Company Overview

Patika Robotics is a research and development company that focuses on producing a new generation of autonomous mobile robots for industry and agriculture. It's headquarter is located in Kavacak, İstanbul and the production facility is based in Akyazı, Sakarya. Our products are self-driving vehicles that can be used for industrial and agricultural applications. The industrial ones can carry up to 4 tons of load autonomously and have capability of working in both indoor and outdoor environments. The navigation of these autonomous vehicles depends on the data that is collected from laser scanners, GNSS, 3D Depth cameras and IMU. We design and produce all the mechanical parts of our vehicles in our facility. The electrical system design, self-driving vehicle software and other software packages are also created by Patika Robotics team.

## General function and primary objective:

We are looking for passionate Electrical and Electronics Engineer candidates who are self-motivated individuals that enjoy working as a team to deliver innovative products.

As an EE Engineer at Patika Robotics, you will be involved in electrical system design, assembly, cable harness design, parameter adjustments, tests and documentation, and certification of Autonomous Mobile Robots.

## Responsibilities:

- Direct involvement on designing and quality improvements of the Mobile Robots
- Develop high and low voltage electrical power distribution, communication and control system harnessing at the schematic and physical level
- Collaborate with Mechanical and Manufacturing Engineers to design cable assemblies to determine cable specifications
- Participate and recommend improvements during design reviews
- PCB Designs for IO boards

## Qualifications:

- Graduate of Bachelor of Science in Electrical and Electronics Engineering, or related engineering departments
- At least 1-2 years' experience in systems engineering (Cable harness/assembly design, control system, system test automation/integration)
- Experience with PMAC or Brushless DC motor controller
- Must possess a hands-on practical approach to problem solving
- Basic knowledge for power electronics and electronic components, hand tools and circuit analysis
- Experience with Altium Designer / Circuit Studio / Proteus is a plus
- Basic knowledge for I2C, RS232, RS485, CAN, Ethernet protocols
- Excellent verbal and written communications skills in English
- Team player, committed to achieve the best results for the organization

**Application:** kariyer@patikarobotics.com