

# KOOSHA MORADI HAGHGOO

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## Objective

- Results-oriented Electronics Engineer with a strong background in developing industrial robotic systems, PLC solutions, microcontroller applications, and automation.
- Passionate about innovation and solving complex challenges in the electronics and automation.
- Seeking a challenging full-time position that allows me to leverage my skills and experience while fostering professional development.
- I am flexible, self-motivated, reliable, responsible, energetic and hard-working person.
- Repeatedly demonstrated exceptional teamwork by actively collaborating with colleagues to successfully deliver projects ahead of schedule.

## Skills & abilities

- Programming: C language + Industrial Robot + PLC + HMI + Debugging
- Designing: Electronic Boards + Power Boxes + Automation
- Mechatronics: Co-Designing + Wiring + Troubleshooting + Repairing
- Manufacturing: Management + Teamwork + Systemization + Problem-solving
- Research, Development, and Improvement: A personal passion and hobby.
- Holder of a valid work permit status, showcasing intermediate English proficiency, backed by a Mensa-level IQ, and proficient in Microsoft Office, especially in Excel.

## Experience

### Independent Contractor | May 2020 - April 2021 | Parsian Rasay Aran (Tehran, Iran)

Design an elevator control box for up to 16 storey buildings and malls:

- Programming main board AVR Mega32 and Elevator cabin's board AVR Mega8.
- Implemented serial communication using SN75176 (differential).
- Managed over 100 I/O using serial to parallel and parallel to serial shift registers.
- Developed a user-friendly interface with a 2\*16 character LCD display.
- Created a 6-layer setting menu for configuring over 150 parameters.
- In-software configurable input/output wiring position.
- External EEPROM 24C16 included.
- Designed for adaptability, supporting 2 to 16 storey buildings, malls, offices and etc. with various call response, naming floors, speeding, timing options.

### R&D Expert | March 2009 – December 2012 | NIK B&H Co. (Tehran, Iran)

- Design and production supervision of several electrical boxes for industrial chillers and other HVAC systems, including PLC or thermostat based controls.
- Managed, educated employees, and established the Power Boxes product line.
- Designed, programmed, and manufactured several PLC-based industrial production line machines, such as hydraulic expander, copper tube bender and etc.
- Developed a robotic welding machine for high-pressure tank manufacturing, encompassing ABB robot repair, programming, Inverter-based speed control, control operator box design, and wiring.
- Designed vehicle refrigerator thermostat with graphical LCD interface and AVR micro controller.

### Electronics Engineer | January 2006 – December 2010 | (Tehran, Iran)

- Designed electronic mainboards for diverse applications, including residential air conditioner, ultrasonic blood slide stainer machine, ice cream machine, vehicle electronic siren amplifier, and etc.

## Education

### IA University of Iran | Bachelor | Electronics Engineering

- September 2003 - March 2009
- World Education Services (WES) evaluation certificate  
Reference Number: 6153386



## Certifications and Licenses

### PLC Certificate from SIEMENS representative (Qeshmvoltage) (Tehran, Iran)

### Technology Of New And Renewable Energy | Wind Farm Design (Tehran, Iran)

- Certificate from the Ministry of Labor & Social Affairs of Iran (Reference Number: 36814590)

### Practical Management Courses - MPT Academy representative (Tehran, Iran)

- Delegation of authority, Targeting, Systematization, Designing control systems, Recruitment skills, Communication skill for managers, Employee motivation, Professional skills of the manager.
- Reference Numbers: 46302625 and 46261535