

# REZA MOHAMMADI

## Embedded System Engineer

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📍 Esfahan, Iran



An embedded systems engineer with experience in EMC compliance of hardware design, particularly for medical devices. Knowledge of working with ARM Cortex-M-based microcontrollers, mainly the STM32 series. Experience in firmware development using C/C++ and always looking for new challenges and solutions to problems. Enjoy working in a team and learning new technologies and platforms with remarkable research skills.

## SKILLS & OTHER

**Programming Language:** C/C++

**Microcontrollers and Platform:** STM32 (ARM Cortex-M), AVR, ESP8266, Arduino Platform

**GUI-Frameworks:** TouchGFX Designer

**Firmware and OS:** SPI, UART, USB 2.0, Free-RTOS

**Hardware:** PCB design with compliance to EMC standard

**Applications:** Altium Designer, Keil vision, CubeMX, TouchGFX Designer, Arduino IDE, Visual Studio Code, Matlab, Qt creator

**Personal Characteristic** Cooperative, passionate learner, flexibility in following company procedures and standards, problem solving ability, self-study, high level of motivation and research skills.

## WORK EXPERIENCE

### Embedded System Engineer

Amvaj Negar Sepahan (Medical device manufacturer), Isfahan, Iran

July.2019 – Present

Worked as R&D specialist on embedded medical device development and managed projects for +3 years.

- Developed 3 embedded medical devices based on ARM microcontroller.
- Improved PCB design compliance with EMC standards in products.
- Diagnosed and Troubleshoot errors and bugs on old-version products.
- Tested and assembled hardware
- Played an important role in obtaining the CE certificate

## EDUCATION

### M.Sc. Electrical Engineering – Electronics

University of Kashan

Sept.2016 – June.2019

- GPA : 17.55 / 20
- Papers in Conferences :  
*Mohammadi, Reza and Rezaei, Farzan,1398,Wide Tunable Highly Linear Triode-based CMOS OTA Using a New gm3 Cancellation Technique, Fourth National Conference on Electrical and Computer Engineering, Tehran, Iran.*

### B.Sc. Electrical Engineering – Power

Islamic Azad University of Najafabad

Sept.2011 – Sept.2015

- GPA : 17.82 / 20

## LANGUAGE

**Persian** – Native

**English** – Full professional proficiency

**Germany** – Elementary proficiency