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| **CARRIER OBJECTIVE** | | |  |  |  |
| About 10 years’ experience in embedded system design and embedded software programming.  My passion is to implement software engineering concepts on MCU programming. | | | | | |
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| **WORK EXPERINEC** | | |  |  |  |
| Senior Embedded Software Engineer | | | | | |
| * Designing pattern for back-end and front-end * Using database concepts to manage different car ECUs data * Using data structure concepts to have a clean room * Using Python and Excel VBA to generate automatic C code from data | | | | | |
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| Embedded System Designer | | | | | |
| * Designing car diagnostic device from scratch * Using ARM CortexM4 MCU * TFT LCD 3.5” through FSMC connection * Micro SD card through SDIO * STemWin library | | | | | |
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| **OPEN SOURCE PROJECTS** | | | | | |
| Open Earbuds | | | | | |
| * STM32WB, Bluetooth low energy * Chip antenna * 4 layers PCB * TOF sensor * Audio codec * Amplifier class H * Digital MEMS microphone * Power line communication for battery charging control * Touch capacitive sensor on PCB * Flex-rigid PCB * MEMS speaker * Power management IC * GitHub link | | | | | |
| Open Health Band | | | | | |
| * Custom rotary encoder * Optocoupler and TIA circuit design * Body temp sensor * Blood pressure sensor * Heart beat rate * E-paper LCD * Low power * BLE 5.2 * GitHub link | | | | | |
| Open Lightning | | | | | |
| * Smart light key * Dimmer * BLE 5.2 * BlueNRG-2 | | | | | |
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| **Hossein Mokarian**  **Tabari** | | | | | |
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| **•** | Electronic Engineer | | | |  |
| **•** | Embedded System Designer | | | |  |
| **•** | Embedded Software  Engineer | | | |  |
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| hosein.mokarian@gmail.com | | | | | |
| +989112134037 | | | | | |
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| **EDUCATION** | | |  |  | |
| **BSC** | |  |  |  | |
| Electronic Engineering  Shiraz University of Technology, Iran | | | | | |
| **MSC** | |  |  |  | |
| Electronic Engineering  Ferdowsi University of Mashhad, Iran | | | | | |
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| **SKILLS** | |  |  |  | |
| * C/C++ * Python * Altium, Kicad * PCB Design * SWD/JTAG * Analog/Mixed signal design * Digital Design * Verilog * RTOS * LTspice * Embedded Linux * Database * Data Structure * Embedded Software Patterns | | | | | |
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| **INTERESTS** | | |  |  | |
| * IC Design | | | | | |
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| **OPEN SOURCE PROJECTS (Cont.)** | | | | | |
| Open Lightning (Cont.) | | | | | |
| * AC coupler * Simple, low cost power line communication circuit * Zero crossing detection circuit * LED drive * Touch capacitive sensor * Humidity and temp sensor * Ambient light sensor * GitHub link | | | | | |
| RFID Handheld | | | | | |
| * STM32F427 * TFT LCD 2.4” (FMC) * ESP8266 Module * Micro SD card (SDIO) * RFID * Custom RFID antenna design on PCB * GitHub link | | | | | |
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| **•** | Electronic Engineer | | | |  |
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| **SKILLS** | |  |  |  | |
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| **INTERESTS** | | |  |  | |
| * IC Design | | | | | |
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