



Kian Emami

Embedded Systems Developer

DoB: 1995-06-10

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- Tehran, Iran

Profile Summary

I am an Embedded Systems Developer. I develop Embedded systems with Cortex M Microcontrollers & Cortex A Microprocessors .

Social Network

- kian-emami-5b1708b7
- kianemami

Skills

- C programming
- Git
- Cortex M Assembly
- Eclipse IDE (STM32CubeIDE)
- Linux
- Buildroot
- Cortex A - Embedded Linux
- High Speed PCB Design
- C++ programming
- ARM Cortex M
- ARM Keil
- FreeRTOS
- Embedded Linux
- U-Boot
- PCB Design
- Altium Designer

Work Experience

- Embedded SW/HW Design Engineer August 2019 - April 2022
 APA Co
 Tehran, Iran
 Tasks and Achievements
 - Data Center Control And Monitoring HW/SW Design
 - DVD-T2 Transmitter Control And Monitoring HW/SW Design

- Embedded Real-Time Software Design

February 2015 – July 2019

Electro Sanat Ghaem

Tehran, Iran

Tasks and Achievements

- X-Band Weather Radar Software Design
 - Realtime Data Acquisition Software Design Based on X86 Platform
 - Realtime Motor Control HW/SW Design
 - Ethernet Based RF Synthesizer Design HW/SW – 100 MHz To 15 GHz
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Projects

- 100G Optical Transport Network (OTN) Transponder

For: OEM Telecom Company (Data Center)

2 CFP Transceivers (100G Fiber Optics Module) Isolated Power Supply (DC-DC Module) – 100W High Speed Backplane Connection

Link : kianemami.com/portfolio/100g-optical-transport-network-otn-transponder/

- 40G Optical Transport Network (OTN) Muxponder

For: OEM Telecom Company (Data Center)

4xSFP+ Transceivers (10G Fiber Optics Module) 1xQSFP+ Transceiver (40G Fiber Optics Module) Isolated Power Supply (DC-DC Module) – 100W High Speed Backplane Connection

Link : kianemami.com/portfolio/40g-optical-transport-network-otn-muxponder/

- Data Center Security Mainboard (SW/HW)

For: OEM Telecom Company (Data Center)

Dual CPUs (STM32H7 & STM32F1) . GPRS Connectivity (PPPoS Protocol) . Ethernet Based Controller With Embedded Http-Web-server and SNMP V2 & V3 Support . Ethernet Based Bootloader For Over-the-Air Firmware Update . Wide Operating Vin (+8V <-> +60V) with polarity Protection

Link : kianemami.com/portfolio/data-center-security-mainboard/

- Industrial BMS Charger Controller (SW/HW)

For: OEM Telecom Company (Data Center)

Ethernet Based Controller With Embedded Http-Web-server and SNMP V2 & V3 Support . Ethernet Based Bootloader For Over-the-Air Firmware Update .

Link : kianemami.com/portfolio/industrial-bms-charger-controller/

- Industrial Power Meter (SW/HW)

For: Independent contractor

Voltage And Current Meter For an Industrial Device in an environment full of Transformers , Inductive Loads and EMI emissions . Wide Input Voltage Range (-100V <-> +100V) With 50mV Accuracy . Wide Current Sensing Range (0 <-> 20A) With 50mA Accuracy .

Link : kianemami.com/portfolio/industrial-voltage-and-current-meter/

Education

- Bachelor in Electronics

2013 – 2018

Institute/University: IAUCTB

Tehran, Iran

Certificates

- High Frequency PCB Design

January 2022

Institute: Mr.Bourghani

- Advanced PCB Layout Course

September 2021

Institute: FEDEVEL Academy

- Advanced Hardware Design June 2020
Institute: FEDEVEL Academy
 - Advanced PCB Design January 2020
Institute: Nirasystem - Mr.Bourghani
 - Embedded Linux - Course 1 April 2019
Institute: Anisa (anisa.co.ir) - Ph.d AFSHIN
 - ARM Cortex M Programming (STM32) March 2016
Institute: MFT Iran - Mr. Najafi
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Language

- English

