Hamid Najafi

Product Manager, Embedded System Specialist

Tehran, Iran | +989158030495 | hamid-najafi@email.com
in Hamid Najafi | LinkedIn Hamid Najafi | GitHub

ABOUT ME

Experienced Hardware Developer with a demonstrated history of working in the Industrial Automation and Healthcare

Skilled in PCB Designing, Microcontrollers, Electrical CAD, Electrical Panels, Design Review alongside Linux System Administration, DevOps and Networking.

This CV summarizes my seven years of practical experience in software, hardware, and IoT solutions for academic and commercial applications. For more information, please visit my personal website.

If you are looking for a dedicated Embedded System Developer with a great technical background, exceptional problem-solving skills and a collaborative mindset, please don't hesitate to connect with me.

WORK EXPERIENCE

Embedded System Design Specialist   Feb 2021 - Present
C1Tech Group
- Lead in the design, development, and implementation of the Operating Room and Cleanroom electrical systems.
- Manager of multiple teams at various places across the country

Hardware Development Manager   Jun 2019 - Present
FUMP-ICT
- Shareholder and Vice Chairman
- Affiliated with Ferdowsi University of Mashhad Pishgaman Holding
- PCB Design, DC Circuit Design, Firmware Development (C/C++), Embedded Linux and Troubleshooting

Product Manager & DevOps Engineer   Apr 2020 - Feb 2021
Department of Education (Khorasan Razavi, Iran)
- Linux System Administrator, Monitoring (SRE), C# (ASP.Net)

Teaching Assistant   Sep 2017 - May 2020
Ferdowsi University of Mashhad
Assistant of Computer Foundation and Programming (Dr.Asadi), Computer Networking (Dr.Mohajerzadeh), Network Security (Dr.Ghaemi), and Wireless Networks (Dr.Hosseini)

Lecturer of Internet of Things Basics Course (with Dr.Sedaghat)
- Designing projects and assignments for students
- Providing support for helping students in their issues
- Scoring and marking assignments

Internship - ICT Network Technician   Jun 2018 - Aug 2018
HiWeb (Vodafone Iran Partner)
- 3G/4G network driver test using TEMS™ Network Testing Portfolio
- Network monitoring using Zabbix
- Several tasks of passive network engineer
- Worked with Mikrotik RouterOS

EDUCATIONAL EXPERIENCE

Embedded System Developer - Development of Cryptocurrency   Jan 2020 - Dec 2020
Mining Rig Energy Monitoring System
FUM IP-PBX Lab
Software Programming: C# (ASP.Net Core API Based) with PostgreSQL Database
Board Design: 2-Layer PCB
Board Specs: ESP32 Core, Current & Voltage Measurement, ADC, AC to DC, RTC, EEPROM, Relay
Based on: Blynk IoT Platform (On-premises)

Educations

- Master of Science, 2021-2023
  IAUM, Computer Networks
  Master's thesis: Design & Evaluation of a Tightly Coupled UWB/INS/GIS Indoor Positioning System Applying Machine Learning Methods in CloudIoT.
  GPA: 19.50/20

- Bachelor of Science , 2015-2020
  FUM, Computer System Architecture
  Bachelor project: Development of Cryptocurrency Mining Rig Energy Monitoring System.
  Major GPA: 18.05/20
  Overall GPA: 16.39/20

- Diploma, 2011-2015
  Allameh Tabataba'i. Mashhad
  Mathematics and Physics
  GPA: 19.76/20

Certifications

- Building Automation using KNX Protocol - Feb 2018
  from "Iran Technical & Vocational Training"

- PCB Designing - Dec 2017
  from "College of Ferdowsi University of Mashhad"

- GNU/Linux Foundation - Apr 2017
  from "FUM LUG Association"

Key Skills

- Excellent leadership, communication and time management abilities

- Strong cooperation and partnership skills in job environment

- Outstanding planning and multi-tasking abilities

- Proven ability to work creatively along with problem-solving skills

- Talented to acquire new skills and develop team members

- Adaptable, diligent and capable of working autonomously when necessary

- Remarkable to make choices in difficult situations

Embedded System Developer - Operating Room UVC Disinfection System
May 2020 - Apr 2020

FUM Robotics Lab

Embedded Board: NodeMcu, UVC Lamps Power Circuit, AC to DC Converter
Based on: Blynk IoT Platform (On-premises)

Designing and Optimizing of Campus LoRaWAN & Wi-Fi Networks
Jun 2019 - Feb 2020

FUM Information & Communication Technology Center (ICT)

- Tools: Ekahau Site Survey, GNS3, iPerf, Chirpstack
- Board Design: 2-Layer PCB
- Board Specs: ESP32 Core, RN2483, RFM95

Executive Committee of the 16th International ISC
Aug 2019 - Aug 2019

Ferdowsi University of Mashhad

- Information Security and Cryptology Conference
- Speaker at Information Security and Cryptology Village

Lead Project Manager - IoT Hotel Managment System
Jun 2017 - Jul 2019

Ashian Startup - Co-Founder

System Administrator: Windows Server-based, QGIS
Software Programming: ASP.Net Framework and Razor pages with Microsoft SQL Server
Boards Specs: 2-Layer PCB with STM32L, Zigbee mesh, audio, touch-key, ultra-low power design

Embedded System Developer - IoT Gateway
Jan 2019 - May 2019

FUM IoT Lab

- Software Programming: C# (ASP.Net Core API Based)
- Database: Microsoft SQL Server
- Board Design: 2-Layer PCB
- Board Specs: STM32F7 Core, RTC, SD Card, USB, 2G, LoRa, Zigbee, Ethernet, Wi-Fi, CAN, nRF (C++)

Embedded System Developer - IoT Call and SMS module
Oct 2018 - Feb 2019

IoT based Call and SMS module

- Embedded Boards: STM32F4 Discovery, NodeMcu, SIM800 (C++)
- Software Programming: HTML, CSS, JavaScript

Application Developer - Monitoring of Burnt Chandelier Lights
Jan 2016 - May 2017

FUM Pattern Recognition Lab

- Device: Samsung Gear S3
- Platform: Tizen (C++)

Skills

Operating Systems
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Expert in Linux and Embedded Linux

Programming Languages
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C/C++, C#, and Bash Scripting
(Most experienced)

Printed Circuit Board
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Experienced in Altium Designer
Expert in PCB assembly (SMD & DIP)

Microcontroller and SoC
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Experienced in ESP32 and STM32 and also
NVIDIA Jetson, Raspberry Pi, and Beagle Bone

DevOps and SRE
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Experienced in Git, CI/CD, Containers
and Orchestration, Automation tools, Metrics,
Tracing, and Logging Systems

Networking
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Experienced in computer network and security
IEEE Wi-Fi, Bluetooth, Zigbee, and LoRaWAN

Web Developer
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Familiar with ASP.Net with HTML, CSS, JS
background

Tehran
25/03/2023