

Sajjad Karbasi

C++ && Qt Developer

sajjadkarbasi.ir[@sajjadkarbasi@gmail.com](mailto:sajjadkarbasi@gmail.com)[+989376693558](tel:+989376693558)

About Me

Hi! I'm a C++ && Qt Developer, At the moment I work @ MojPardazan Co. a private contractor for embedded systems && software development. I'm a Linux enthusiast (particularly Arch), a Doc-worm who is addicted to try novel technologies. Furthermore, I'm a self-learner, a rationalist freethinker but your humorous teammate at the same time.

- Education: B.Sc. Electrical Engineering
- Marriage status: Single
- Birth Date: 28 Dec 1997

Skills

In summary, I have experience working with these tools and often use them:

- Modern C++ (14, 17, 20)
- Arch Linux
- Qt widget/qml
- Embedded systems
- Protocol design
- OOP, Design pattern, TDD

Experiences

C++ Developer

MojPardazan

Aug 2020 - present

Tehran, Iran

Full-time

C++, Qt, Multi threading, Linux, Socket programming, Lua language, Python, git, SQL, zynq, CMake, TDD,

MojPardazan is a private contractor for developing embedded devices like ADSB systems and pattern analyzer embedded devices. My main job is to develop desktop software and maintain Linux systems and code base

Responsibilities:

- Develop software for gathering data and managing
- Developing application for zynq (ARM part)
- Qt application for devices and management protocols to communicate with them
- Embedded system programming in both C++ and Python

Contributions:

- Write an application for data aggregation. This app aimed to decrease the amount of cost that each company should pay to test its devices with other systems. The main purpose was to define a system

to be compatible with all types of protocols and a graphic interface to shape packets and define input and output (like Serial port or Socket). With this, any company can test its devices and combine data without a single line of code.

- Another job in the company was to write protocols and GUIs for systems. Both qml and Qtwidget
- Recent project was to write a program for zynq board with C language
- Multiple Desktop GUI based application with Map (Marble) and network connections

Achievements:

- use multiple design patterns like singleton or factory and abstract factory
- work with model-view in Qt
- decrease the overall cost of testing devices and checking incompatibilities with other apps by 25% at least
- decrease the size of devices by migrating from embedded Linux to zynq board

C++ Developer

Padakam

June 2019 - Aug 2020

Tehran, Iran

part-time

C++, Qt, Socket, Linux, signal processing, Bash script,

Padakam was a company for developing systems for town safety, My main job is to develop desktop software.

Responsibilities:

- Writing a desktop application for data aggregation
- managing Linux systems and Embedded devices

Contributions:

- writing a data Aggregation app which used octave (Matlab alternative for Linux) to manage protocols and modify them to send to another device
- Develop an antenna pattern analyzer with an embedded board to be portable

Achievements:

- Signal processing in C++ application
- Work with large project with multiple developers

C++ Developer

Rizmoj

July 2017 - June 2019

Tehran, Iran

part-time

C++, Qt, Linux, OpenCV, Python, flask,

Rizmoj is a company with multiple tasks including signal processing, data transceiver and desktop application development. My main job was to develop serial port application OpenCV to work with cameras Write webServer for embedded application Maintain and optimize Linux systems

Responsibilities:

- Writing a desktop application for data aggregation
- Managing Linux systems and embedded devices

Contributions:

- Write a flask application and config its server for ADSB data

- Write multiple simple GUI apps for serial port communication
- OpenCV app for detecting the effect of heat on the alloy to determine its elements and its features

Achievements:

- Write a website back end and server configuration
- Understanding the working atmosphere
- My first job, so I took lots of responsibilities to know more about what field I want to follow