MohammadReza Foroutan

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Qt(C++) Software Developer

Amstelveen, The Netherlands
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With 8 years of experience in Qt and **C++** software development dealing with sensors and radar technology, I've led projects in diverse and international teams across multiple countries, emphasizing teamwork. I'm enthusiastic about learning and adapting to new tech or even any new programming languages. I'm currently a scrum master at HvA, actively involved in AI projects. I'm looking for opportunities in the high-tech industry, and I am available for immediate contract signing (ASP). I reside in Amstelveen.

Skills

C++, Qt, Python, QML, QtQuick, PySide, JavaScript, HTML, CSS, SQLite, MySQL, TCP and UDP protocols, MQTT, Agile(scrum), SOLID, OOP, Git, Jira, Trello, Miro, OpenCV, Numpy, Skimage, Scipy, matplotlib, Machine Learning, Computer Vision, Linux, ShellScripting, Arduino, Java, Matlab, Yocto Project(AGL), JSP

Technical Experience

c++ Software Developer   Besmak   Turkey, Ankara   09 2019 — 08 2023(4 yrs)

A global construction leader, pioneering quality control in materials with cutting-edge technology and a strong focus on Research and Development.

- Introduced and developed a cutting-edge, 5-axis robotic system that utilized IR camera technology to automatically detect car paint thickness, resulting in a significant increase in efficiency and accuracy for paint thickness measurements in the automotive industry in several cities across Turkey, Iraq and Germany.
- Innovated and executed sophisticated and real-time video extensometer software with unrivaled precision.
- Advised and oversaw the implementation of an automatic approach to calibrate gas stations throughout Turkey, reducing the cost and time required for calibration while improving safety and accuracy.
- Conducted extensive material testing software and worked closely with a variety of test sensors.
- Collaborating with a number of multidisciplinary and multinational teams.

SKILLS: **C++, PYTHON**, QT, QWIDGETS, PYSIDE, CMAKE, OPENCV, DIC, EIGEN, FFTW, NANOFLANN, TCP/IP, DOLLY SENSORS, MQTT, MACHINE LEARNING, SKIMAGE, SCIPY, MATPLOTLIB, IMAGE PROCESSING, GRAPH ANALYSIS, UBUNTU, BEAGLEBONE(AI), NUC, MODBUS, WEBSOCKET, THERMOGRAPHY, IRNDI, MATLAB, QML, SQLITE, WEBDAV, IR CAMERA, EXTENSOMETER, PLC, SOLID, OOP, GIT, GITLAB, TRELLO, AGILE(SCRUM)

Senior C++ Developer   Borhan Rayan Matin(Part-time/Remote)   Iran, Shiraz   09 2021 — 05 2023(1 yr 9 mos)

*A telecom company specializing in **radar technology**, DSP algorithms, and efficient real-time data processing.*

- Planned and launched a multithreading module that efficiently read data from the pipeline and saved it to a customized circular queue, demonstrating proficiency in data management.
- Combined a custom library that integrated advanced Digital Signal Processing (DSP) algorithms for effective data processing and incorporated a separate module for data visualization.
- Optimized system structures to achieve a significant increase in data throughput, resulting in improved efficiency and performance.

SKILLS: **C++**, QT, QWIDGETS, CMAKE, SOLID, OOP, AGILE(SCRUM), JIRA, TCP/IP, MULTITHREADING, DSP, MEMORY EFFICIENCY, UBUNTU, OPENSUSE, PIPELINE, CFQ, BUFFERING

Embedded(C++) Software Engineer   a hydrophysics Department of MUT   Iran, Shiraz   02 2018 — 08 2019(1 yr 7 mos)

*This university department focuses on topics like **wave propagation, sonar, Digital Signal Processing and marine navigation**.*

- Devised and implemented comprehensive sonar software using Qt (C/C++) for data reception, processing, and visualization.
- Demonstrated expertise in embedded system development by working with custom hardware features.
- Developed a Sonar software GUI with a focus on user interface design to display processed data and visualize targets.
- Employed advanced filtering techniques, such as matching and revealing filters, for efficient and accurate data processing.

SKILLS: C, **C++**, QT, QWIDGETS, MQTT, FPGA, FFT, DSP, A2D CHANNELS, DM8168 PROCESSOR, TCP/IP, UBUNTU, MULTITHREADING

Embedded(C++) Developer   Zomorod Parseh   Iran, Shiraz   03 2015 — 12 2017(2 yrs 10 mos)

A forward-thinking tech company specializing in innovative solutions and the development of RFID technology in Iran.

- Deployed Qt(c/c++) projects on Ubuntu for embedded systems, including Raspberry Pi and BeagleBone.
- Developed C projects for better conversation with RF modules.
- Designed and implemented RFID-based access control systems across industries.
- instituted a smart driver ID and car service records system using advanced RFID technology.(Tehran-Isfahan-Tabriz-Shiraz)

SKILLS: C, **C++**, QT, QWIDGETS, MQTT, RFID(UHF), RASPBERRY PI, BEAGLEBONE, RF MODULES, TCP/IP, UDP, SQLITE, GIT, UBUNTU, RASPBIAN

Education

Researcher at Digital Society School, *Amsterdam University of Applied Sciences, The Netherlands, Amsterdam*   09 2023 - 01 2024
Master of Artificial Intelligence, *Malek Ashtar University of Technology, Iran, Tehran*   09 2015 - 11 2018
Bachelor of Software Engineering, *Fasa University, Iran, Fasa*   09 2010 - 08 2014
Gained second place in the national Java programming competition in Iran.
Expereinced Teaching assistant in Java and Python courses for five semesters.