Resume

Usman ASHRAF

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Languages: English, German(B1)
Driving License: B
Böblingen, Germany

Work Experience

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Mar. 2019 →

Skills:
- C/C++, python
- IAR, Green Hills
- AUTOSAR
- Embedded Linux (Yocto)
- Automotive Android
- Application Development
- Bug-fixing
- Agile Methodologies

Software Engineer
Alps Alpine Europe GmbH Stuttgart, Germany

- Developing automotive embedded ECUs for OEMs in C/C++.
- Developing diagnostic services and routines in C/C++.
- Custom bootloader development with different interfaces.
- Device drivers development in C/C++.
- Implementing security concepts for memory consistency.
- Reverse engineering of map, hex and binary files.
- Software development for in-vehicle-infotainment-system in with Yocto embedded Linux and Google Android automotive.
- Tools development in python.
- Continuous integration and build issues resolving.

Nov. 2016 → Feb. 2019

Skills:
- C/C++, Java
- Embedded Linux
- Application development
- Code optimization
- Bug-fixing
- Agile Methodologies
- CI & Build Management
- GIT, SVN, Jenkins

Software Developer
Aquilius Research GmbH (Advantest) Böblingen, Germany

- C/C++ libraries development for multiple Red Hat Linux OS with different GCC and open-source libraries versions.
- Multithreaded C++ APIs with design pattern development.
- Inter process communication based Application development.
- Device drivers development in C/C++.
- Embedded device drivers development.
- Static code analysis with Coverit, Dynamic code analysis with Valgrind's tool Memcheck, Callgrind and Helgrind.
- Domain specific raw Ethernet and TCP/IP based Application development.
- Bugs reproducing in the R & D center, debugging, bug fixing, testing for bug fixes and reporting solutions to customers via Jira and Documentation portal.
- Continuous integration and build management with Jenkins.

Nov. 2015 → May. 2016

Skills:
- C/C++, Python, Java
- Application development
- Bug-fixing
- GIT, SVN, Jenkins

Trainee Software Developer
d-fine GmbH Frankfurt, Germany

- Platform independent C and C++ software development using open source libraries BOOST, EIGEN and XERCES.
- C++ Code optimization and improvement of data logging.
- Platform independent C and C++ automated unit tests and integration tests development.
- Programming Languages Used: C++, C#, Java-JNI and Python for APIs.

May. 2015 → Nov. 2016
Mar. 2015 → Sep. 2015

Skills:
- C/C++, Python, Matlab
- Application development
- Bug-fixing
- GIT, SVN, Jenkins

Master Thesis
Master Internship
Robert Bosch GmbH, Germany

- Re-designing and refactoring a sequential simulation tool into a layered multithreaded pipes and filters architecture.
- Developing C++ and C#.NET APIs for C native dlls.

Education

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Hochschule Darmstadt
Sep. 2013 → Nov. 2016

Master in Electrical Engineering and Information Technology
University of Applied Sciences Darmstadt, Germany.
Grades in %: 70

COMSATS IIT
Aug. 2008 → Sep. 2012

Bachelor in Electrical Engineering
COMSATS Institute of Information Technology, Pakistan.
Grades in %: 87

Professional Membership

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ACM
Since Sep. 2023

Professional Membership
Association for Computing Machinery (ACM)

PEC
Since Sep. 2012

Registered Engineer
Pakistan Engineering Council (PEC)

Certifications

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C++
Nov. 2022

Object Oriented Implementation Using C++
IBM

Python
Nov. 2022

Python for Data Science, AI & Development
IBM

Embedded System
Oct. 2022

Embedded Software and Hardware Architecture
University of Colorado Boulder, USA

Professional Platforms

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LinkedIn

www.linkedin.com/in/usmanashrafelectricalengg

Github

https://github.com/UsmanAshraf1988

References

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(Will be provided on Request.)