



PARVAIZ AHMAD

EMBEDDED SOFTWARE DEVELOPER

With more than 5 years of experience on different embedded system products at Siemens previously known as Mentor Graphics®.

[Online Resume](#)

EDUCATION

BSc Electronic Engineering

2012-2016
Islamia University of Bahawalpur
Grade: B+ , GPA: 3.74/4.0, 4151/4850 - 85.59%

Pre-Engineering

2010-2012
Punjab College for boys Bahawalpur
Grade: A , Marks: 876/1100 - 79.64 %

Secondary School Education/Matric

2008-2010
Al Badar H/S School for boys Head Rajkan
Grade: A+ , Marks: 928/1050 - 88.38 %

EXPERIENCE

Siemens

Technical Lead
January, 2021 - Present

- C++ applications development.
- C applications development for Nucleus RTOS.
- Proficient in C, C++, Python, object-oriented programming (OOP) principles, cmake, gtest, pytest, Docker, Git, and Linux, demonstrating a diverse range of technical skills for efficient software development and collaboration.
- Developed a testing framework from scratch for automated testing of C++ applications using GDB on Linux based system.
- Updated and improved significantly inhouse developed C++ testing framework.
- Leveraged C to develop safety critical applications using Nucleus Safety Cert and PetaLinux.
- Implemented Jenkins Job for building and performing static memory analysis of C/C++ applications using Python.
- Successfully refactored an exceptionally large project by revamping the versioning structure, incorporating Git submodules while preserving the complete commit history. Effectively resolved dependencies for different submodules.
- Transferred Jenkins Continuous Integration (CI) processes to GitLab CI, ensuring seamless workflow and integration.
- Collaborated with an extensive and diverse international team spanning multiple countries, effectively managing communication and coordination.
- Thrived in a fast-paced work environment, delivering high-quality results within tight deadlines.
- Adapted quickly to new technologies and acquired knowledge rapidly to stay up-to-date with industry trends.
- Demonstrated exceptional problem-solving skills, resolving complex technical challenges with efficiency and innovation.

Mentor Graphics®

Senior Software Development Engineer
December, 2018 - December, 2020

- C application development for Nucleus RTOS.
- Worked on automation for driver testing.
- Strong understanding of software debugging and testing techniques.
- C applications for measuring performance and stability of multicore systems.
- Application development for embedded systems.

Mentor Graphics®

Software Development Engineer
July, 2017 - December, 2018

- Polished and enhanced all technical skills by working within a diverse and top-class engineer in industry.
- Grew a better technical understanding especially on embedded systems, RTOS and architecture.
- Grew a better technical understanding especially on embedded systems, RTOS and architecture.
- Worked on testing of embedded software especially driver testing and OS testing.
- Developed better communication skills.
- Learned how to work with different teams in a very diverse environment as well as an individual.
- Flourished a better understanding of time management and process management.

KICS UET Lahore

Trainee Engineer
January, 2017 - June, 2017

- Enhanced and polished knowledge of embedded systems.
- Worked on 3D printer, Automatic Irrigation System, development and modification on innovative level.
- Developed Technical report writing skills.
- Learned Project proposal writing, managing as well as developing the project.
- Worked with different field engineers and research officers.

EXPERTISE

- C/C++
- Python, Bash
- Embedded System, Electronics
- Solid Knowledge of Linux OS
- Docker, Cmake, Ctest, Gtest, Pytest, Build Systems
- ARM, AVR Controllers
- Virtual Box, VMware, VCloud
- Jenkins, GitLab CI
- Git (GitHub, GitLab, Bitbucket), SVN
- Eclipse, Atmel Studio, uVision
- Microsoft Office, Atlassian suite (Confluence, JIRA)
- Nucleus RTOS, Nucleus ReadyStart, Nucleus SafetyCert

CERTIFICATION

Click on respective certificate to view

- HackerRank
- Advance C Programming
- C++ From Beginner to Beyond
- Parallel and Concurrent Programming with C++ Part 1
- Parallel and Concurrent Programming with C++ Part 2
- Master CMake for Cross-Platform C++
- C++ Best Practices for Developers
- Test Driven Development in C++
- Learning Docker
- Learning Kubernetes
- The Git & Github
- UML & OOP Design Foundations

INTERPERSONAL SKILLS

- Excellent verbal and written communication skills, facilitating effective collaboration and seamless information exchange.
- Strong team player, fostering a spirit of cooperation and cohesion within diverse teams.
- Proficient in conducting thorough research and quick to grasp new concepts, demonstrating a keen aptitude for learning.
- Possessing strong analytical skills to assess complex problems and develop innovative solutions.
- Adaptability to work in a fast-paced environment with remote teams, ensuring efficient coordination and timely deliverables.
- Committed to adhering to scheduled and team-agreed timelines, ensuring timely completion of projects.
- Highly motivated and focused, consistently striving for excellence in all tasks undertaken.
- Multilingual proficiency in English, Urdu, Punjabi, and Saraiki, facilitating effective communication with diverse stakeholders.

INTEREST

- Robotics
- Embedded Systems
- Reverse Engineering
- Electronic Circuits
- Electronics Automation
- IoT
- Working with microcontrollers
- Making Technical videos for YouTube
- Making Software as well as Hardware Hobby Projects

AWARDS

Punjab Group of Collages

2010-2012

Received merit base Full Fee Scholarship.

Islamia University of Bahawalpur

2013

Received merit-based Laptop Award from Chief Minister Punjab

Islamia University of Bahawalpur

2016

Achieved "Shield of Commitment" from the Vice Chancellor of IUB Bahawalpur

CONTACT

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