

Training & Support

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Certificate of Attendance

This is to certify that *Ali Darijani* has attended the 3-day online course with hands-on exercises

“Modern C++ Software Design”

Lecturer: Dr. Klaus Iglberger

on October 5-7, 2022.

The course gave insight into the different aspects of C++ (object-oriented programming, functional programming, generic programming) and taught guidelines to develop mature, robust, maintainable, and efficient C++ code:

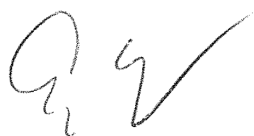
Conveyed concepts and skills:

- fundamental C++ programming concepts and idioms
- object-oriented and functional programming
- template-based programming
- design classes and class interfaces
- good and bad parts of inheritance
- value-based design
- capability of writing clean code.

Detailed topics:

- overview of the STL (iterators, algorithms, containers)
- compiler generated functions
- copy elision
- object lifetimes
- RAI
- move semantics
- proper handling of member data
- maintainability of classes
- const correctness
- inheritance: good and bad parts, public inheritance
- value semantics: from pointers to values
- surprises in object hierarchies.

Kind regards,



Georg Hager
Head of Training & Support, NHR@FAU