



INSTITUTE

February 24, 2022

# CERTIFICATE

of proficiency in the  
C++ programming language

**Essam A. El-Sherif**

is a C++ Certified Professional  
Programmer - **CPP**

Exam Version: CPP-22-02

## Scope

- Templates
- STL sequential containers
- STL associative containers
- Modifying STL algorithms
- Non-modifying STL algorithms
- Sorting STL operations
- STL merge operations
- STL utilities and functional library
- STL advanced I/O

This certificate can be verified at  
[verify.openedg.org](https://verify.openedg.org)

Code: **Eg6b.jwis.avtg**



*Boguslawski*

Christopher Boguslawski  
President, C++ Institute

