

# CERTIFICATE

of proficiency in the  
C programming language

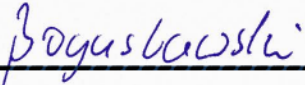
**Essam A. El-Sherif**

is a C Certified Professional  
Programmer - **CLP**

Exam Version: CLP-12-01

## Scope

- C language standards and modern C
- Handling variable numbers of parameters
- Low-level I/O operations, file control
- Memory and string operations, l18N
- Processes and threads
- Float and integer processing, multi-precision libraries
- Network sockets
- Miscellaneous: const, restrict, volatile, jumps, array operations, unspecified/undefined behaviors, portability issues

  
Christopher Boguslawski  
President, C++ Institute



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

Code: **BEw4.Ht0J.Fhcp**

