

Glen Fernandes

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Education

03/2004 – 12/2008 **B.E. Software Engineering**, *University of Sydney*, Sydney.

Experience

03/2014 – 03/2015 **Senior Software Engineer**, *Intel*, Washington.

Design and implementation of SDKs for serialization, networking, and authentication, on mobile platforms.

11/2012 – present **Contributor**, *Boost C++ Libraries*.

Author of the Align library. Contributor to the Smart Pointers library, the Core library, and several other Boost libraries.

02/2009 – 02/2014 **Software Development Engineer II**, *Microsoft*, Washington.

Developer of the Bond C++ serialization library and code generator. Developer of the XAP C++ SDK for high performance network services.

12/2007 – 02/2008 **Software Engineer Internship**, *Microsoft*, Washington.

Developer of the QuickLinks network service implemented in C++.

11/2006 – 11/2007 **C++ Developer**, *EarthByte*, Sydney.

Developer of the GPLates desktop application for the interactive visualization of plate tectonics written in C++.

C++ Standard

P0653R2 **Utility to convert a pointer to a raw pointer.**

Author of proposal. Adopted in C++20. Implemented in Boost Core, libstdc++, and libc++.

P0674R1 **Extending `make_shared` to support arrays.**

Coauthor of proposal. Adopted in C++20. Implemented in Boost Smart Pointers.

LWG3008 **`make_shared` (sub)object destruction semantics are not specified.**

Author of defect report and proposed resolution.

LWG3007 **`allocate_shared` should rebind allocator to cv-unqualified value_type for construction.**

Author of defect report and proposed resolution. Adopted in C++20.

LWG2226 **`wstring_convert` methods do not take allocator instance.**

Author of defect report and proposed resolution.

C++ Libraries

boost.align A C++ library that provides functions, classes, templates, traits, and macros, for the control, inspection, and diagnostic of memory alignment.

boost.smart_ptr Implemented `allocate_shared` and `make_shared` for arrays for C++03 and higher. Contributed to the design of C++17 `shared_ptr` for arrays.

boost.core Implemented conditionally `constexpr addressof` for C++11 and higher. Implemented `pointer_traits` and `to_address` for C++03 and higher.

Patents

US8990242 Enhanced query suggestions in autosuggest with corresponding relevant data