

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

P0653 **pointer_traits utility to convert to raw pointer**.

Author of proposal. Implemented in Boost Core.

P0674 **Extending make_shared to support arrays**.

Coauthor of proposal. Implemented in Boost Smart Pointers.

LWG 2226 **wstring_convert methods do not take allocator instance**.

Author of defect report and proposed resolution.

C++ Libraries

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

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.

core Implemented conditionally constexpr addressof for C++11 and higher. Implemented pointer_traits and P0653 for C++03 and higher.

Patents

US20130046777 Enhanced query suggestions in autosuggest with corresponding relevant data