

# Theodore Bullock

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**Objective** Software Engineering position in technical design and project management in Calgary, Alberta

**Professional Memberships** Member in Training of APEGGA

**Education & Degree** University of Calgary Schulich School of Engineering  
B.Sc in Software Engineering - 2007

**Technical Skills** **Languages:** C, C++, .NET, Java, SQL, HTML, VBA  
**Platforms:** Microsoft Windows (Visual Studio 2005), OpenBSD, Linux  
**Concepts:** Software Metrics, Driver development, Networking

**IT Work Experience** **Nortel Networks**  
**Release Management Support (Software Engineering Internship)**  
May 2005 → September 2006

- Developed dynamic web-based software metrics reports for Release Management team using VBA with Business Objects, Excel and Visual Studio 2005.
- Managed data to ensure data integrity using the Clarify CRM tool.
- Developed tools in C & C++ to manipulate and gather external data sources.
- Organized and led meetings with internationally located individuals to establish customer requirements and data integrity.

**Project Experience** **The httpperf Web Workload Generator**  
**Ongoing open source software engineering project**

- httpperf is an open source tool for measuring web system performance. Written in C, originally by HP Labs, it is designed to run on UNIX-like platforms similar to OpenBSD and Linux.
- As project leader of a group of engineering students, communicated with industry professionals from Yahoo and Hewlett-Packard to identify deficiencies and enhance the tool.
- After graduation, continued industry liaison and addressed the developer track of the WWW2007 conference on practical use of httpperf in performance monitoring of web systems. (Banff, May 2007)
- As the current project manager and main developer of httpperf, wrote and published technical manual for introduction to httpperf.

Documents, slides and audio recordings available at <http://www.comlore.com/httpperf>

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## Project Experience (continued)

### The Media Transfer Protocol Library libmtp

#### Individual software engineering design project

- libmtp is a driver library written in C for interacting with devices that communicate via the Media Transfer Protocol (MTP) – for example, the Microsoft Zune and iriver clix.
- As a fourth year software engineering project, worked with external developers to identify deficiencies with the libmtp library.
- Implemented support for multiple concurrent connections and addressed significant stability issues when communicating with iriver devices.
- Resulted in a stable libmtp release which is now distributed by many Linux and BSD distributions.

## Communication Experience

### Technical Writing

Wrote and published a technical introduction manual for httpperf

### Presentation

Addressed attendees at WWW 2007, an annual conference for professional web developers on how to use httpperf to analyze different web environments

## Honors & Awards

### Governor Generals Award Nomination

Academic Excellence in Grade 12

## Other Work Experience

### Leo Talbot Construction

#### Framer/Carpenter (Full-Time 2004 - 2007 Summer Season)

- Built residential houses and custom mansions
- Read plans to build walls, construct engineered floors and roofs, position and install windows
- Supervised employees in construction process, safety and efficient work methods

## Extracurricular Activities

### Traveling

Restored aging truck and camper with the purpose of travelling across southern Alberta

### Bike Across Canada

June 2002 → September 2002

At the age of 19, traveled across Canada from Vancouver, BC to St. Johns, NFLD alone by bicycle (<http://www.comlore.com/bike>)