

## **GREG CARTER**

Ottawa, Ontario

(613) 248-0450

greg@carter-engineering.com

**Qualifications:** Experienced Software Engineer with expertise in new product development, rapid prototyping, product lifecycle management, and enhancing customer's satisfaction. Recognized for my ability to identify new business opportunities relating to software products, and having the competence necessary to realize the opportunities in a timely manner.

Well-versed in computer security algorithms and protocols, software anti-tampering, anti-debug, and reverse engineering. Extensive experience implementing protocols for TCP/IP networks. Adapts easily to new development platforms. Reputation as proven problem solver for difficult software issues.

Development languages used include C/C++, Java and Assembler on MS Windows, Symbian OS (ARM), and RTOS.

Development tools include:

- MSVC
- IDA Pro
- CVS, ClearCase
- MS Embedded Visual C++
- Paradigm Embedded C
- GCC/Make/NMake

### **Employment:**

**2003 - Present** Senior Software Engineer  
Cloakware Corporation  
Kanata, Ontario

Prime development lead for software protection products for a wide range of applications and platforms.

- Enhanced Copy Protection API for Nokia NGage (gaming phone). Developed unique protection schemes for new platform. Integrated existing company products on new OS (Symbian).
- Developed protected module for Open Mobile Alliance Digital Rights Management key exchange.
- Integrated large software code base received from company partner (Intel) into existing product line.
- Researched opportunities for applying company technology to new platforms.

**1996 – 2002** Senior Software Engineer  
Entrust Inc.  
Kanata, Ontario

Worked on small teams or individually releasing several products each enjoying extensive product lifetimes. Involved with each product from early customer requirements gathering to release.

- Entrust VPN Connector - Identified product weakness in VPN segment, determined solution, then developed Entrust VPN Connector while working directly with leading VPN device manufactures. Allowed Entrust to sell to broader range of customers and fill VPN product need.
- Entrust DOCSIS API – Responding to customer requirements developed a solution for cable modem manufactures to integrate digital certificates on the assembly line. Introduced Entrust to new customer base (manufacturing). Resulted in largest PKI (over 2 Million).
- Entrust IPsec API – Produced API that allowed VPN client software to interact with Entrust PKI. Implemented IPsec IKE and certificate validation. Extended API based on customer feedback resulting in broader use.
- Entrust Validator API – Worked closely with leading wireless hardware providers to develop a validation API for WAP service providers.
- Contributed to the development and maintenance of the core Entrust product line.

**1995 – 1996** Software Engineer  
CRYPTOCARD Corporation  
Carleton Place, Ontario

Undertook several large projects:

- RADIUS and TACACS Authentication Servers – First software only based product for company. Developed complete product, GUI to protocol layer to SQL database.
- Software based token API.
- Implementations of several cryptographic algorithms in C and Delphi.

**Education:**

**1991 – 1995** Bachelor of Electrical Engineering  
Carleton University, Ottawa, Ontario

