

# STEVEN SHANNON

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## Experience

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2017-present **Shantek Mobile Software Solutions, San Diego, California**

Chief Technologist

- Development of applications for the Android Smartphone platform employing XML data transfer, AES encryption, image display, and location services, including the UI design.
- Various mobile applications for Win CE 6.0 using C++/MFC involving AES encryption NMEA GPS sentence decoding, and Bluetooth data transfer over RFCOM and Serial Port Protocol (SPP)..

2000-2016 **Northrop Grumman – Information Systems (Utility Solutions) San Diego, California**

Senior Software Engineer

- Principle architect for the primary application suite of multi-threaded Windows based PC applications for route-based data collection management utilizing a connection to a SQL database. Data is sent full circle to mobile devices via USB, Bluetooth, and network connections using TCP/IP.
- Development of applications employing device-device communications and data transfer using Bluetooth com or sockets interface.
- Development of native application software (C++/MFC) for various handheld field computers running WinCE 4/5/6 and Windows Mobile.
- Interfacing Windows applications with Smartcard hardware and writing the card resident Java applet for providing encryption and authentication services.
- Providing engineering assistance toward the development of firmware for various systems employing embedded processors (Intel 8051 derivative) in applications employing magnetically coupled data collection.
- Designed software for interfacing with data probes, GPS receivers, and other devices via RS232, USB, and Bluetooth which included NMEA sentence decoding, bearing calculation, and other decoding functions.
- Translation of legacy field data collection software into Java SE for migration to new mobile platforms.
- Migration of legacy PC applications from standalone dBase interface to client-server methodology with MS SQL Server.
- Implementation of a post-collection processing module for the decryption of AES encrypted metering data collected by radio receiver from remote fluid metering devices.
- Implementation of reporting tools in applications using embedded Crystal Report controls as well as native report generation methods.
- Implementation of software security requirements including customer authorization management and multi-level user privilege management.
- Deployment of end product as Windows Installer based component package created.
- HTML based product documentation and online help solutions.

1994-1999 **Internationalization Services Consultant (primary client Fujitsu) Tokyo, Japan**

Localization Engineer

- Management and integration of projects involving development teams in several countries.
- Designed networked database applications employing client-server methodologies localized for multi-byte character sets using Java and C/C++.
- Developed suite of translation management tools for processing documents formatted in SGML and HTML.

## Education

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**California State University, Northridge**

Bachelor of Science, Computer Science (1989)

**San Diego Mesa College (2007-2015)**

Post undergraduate coursework in Anatomy, Physiology, Microbiology, & Emergency Medicine

## **Systems and Software Development**

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Development Environments: Visual Studio 6, 2005, 2010 (Professional versions)  
Visual Studio Community 2015  
Sun/Oracle JDK 1.6/7/8  
Android Studio  
Eclipse (Galileo-Juno-Mars) for Java development

Design & Modeling Tools: ArgoUML

Configuration Management: Git

Application Servers: GlassFish, Tomcat

Applications: MS Office (Word, Excel, Access, Publisher, Front Page, Outlook)

Databases: MySQL  
MS SQL Server  
SQLite  
Sequiter Codebase (dBase IV)

## **Certifications and Licenses**

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Sun Microsystems: Certified Java Programmer/Certified Java Developer (Java 1.1)

Medical: Emergency Medical Technician – licensed in California (San Diego County)

Aviation: Private Pilot License (Single engine, Fixed-wing, Land)

Amateur Radio: General Class License