Chen, Kuang-Yu

Mobile: +886-0963086658

Email: peteyngwie@gmail.com

LinkedIn: www.linkedin.com/in/pete-chen-2b4a46121/

SUMMARY OF QUALIFICATIONS

- Object oriented programming for large scale software systems in C/C++
- SQA (Software quality assurance) plan; it includes software test (system test/unit test design) and TDD
- Android/iOS mobile applications development
- Firmware development
- Object oriented software system analysis and design with UML
- Software engineering implementation (Software requirement specification , software configuration management , software architecture design , SQA , test)
- Generic & template programming in C++
- Win32 applications development with VS C++ , .net and RAD (Delphi/C++ Builder)

Educational background

I Shou University, Computer Science and Information Engineering 1998

Work experience

2015/12 – 2019/7 NewEgg Co., Ltd., Taipei

⊠ **SQA manager**

Responsibilities:

⊠ Android application development and SQA team management . Responsibilities include following :

⊠ Android cloud files management app - Newegg Box

⊠ Software test plan development (IEEE 829 std) and test automation (epresso/appium/webdriver)

2007/08 – 2015/11   Hon Hai Precision Ind. Co., Ltd., Nei-Hu, Taipei

⊠ **Manager**

Responsibilities:

- Android application development and team management ; it includes IPTV , Home automation platform design (smart power control) , 5" wall mount (Telechip TCC8925 - Android jellybean 4.2.1 / Amlogic AML 8726) launcher development
- Android application development and team management ; it includes IPTV , Home automation platform design (smart power control) , 5" wall mount (**Telechip** TCC8925 - Android jellybean 4.2.1 / **Amlogic** AML 8726) launcher development
- Music streaming app (Internet radio and Free music player) development on TI AMX3352 platform (Android 2.3.4) and skyviia sv8860 platform (Android 2.3.1) .
- Android based Digital Media Receiver system development (Skyviia sv8860 – Android 2.3.1)
- DAB app development on TI (Android 2.3.4) AMX3352 platform
- Porting uPnp applications to skyviia sv8860 android based platform
- Alarm app development on TI (Android 2.3.4)AM335x platform
- Software architecture design for android apps with UML and IEEE std 1016 – Detail description document
- Requirement specification design with IEEE std 830
- Mobile Software RD Teams management (MMI/Driver/SQA)
- Software requirement specification (bases on IEEE std 830 -1998) with use cases and UML for man machine interface applications
- Software detailed design and architecture analysis (bases on IEEE std 1016 -1998) with UML (activity diagram , state transition chart) and programming design language (PDL)
- Software test plan (bases on IEEE std 829 – 1998), it includes master test plan, system test plan, acceptance test plan and unit test plan for man machine interface applications .
- Mobile applications development bases on Open Plug (ELIPS)/ Kaleido – KPL (Kaleido Phone Library)
- Integrating GuoBi IME (input methods engine) into Open Plug (ELIPS)/ Kaleido – KPL System
- Factory mode implementation in C/C++
- Man machine interface applications CC/SS/setting/profile/contact/SMS design and implementation in C/C++
- RTK Device driver programming for audio/LCD display/Keypad

2002/10 – 2007/07   PCS, System Engineering Dept. R&D Div., Wistron NeWeb Corp., Hsin Chu
- **Staff software engineer**

Responsibilities:

Project Name: 32-bits microprocessor Hard Disk MP3 Player embedded software solution

- Software project management
  - Define software requirements specification (SRS) of embedded hard disk MP3 player software system.
  - Define Man-machine Interface specification for hard disk MP3 Player embedded software system for BTC Corp. Ltd.
  - Design software design description specification of hard disk MP3 Player embedded software system.
- Software test activities development and planning
  - Design system test cases specification for FS2312 hard disk MP3 software system
  - Design system test design specification for FS2312 hard disk MP3 software system
  - Design system test procedure specification for hard disk MP3 software system
- Develop MP3 GUI framework bases on Motorola® MP3 HDD software solution (Trio™) using ANSI C and WinRiver ™ Vision ICE and BDM (Background Debug Mode).
- Testing case design for Trio™ software package using below testing methods.

  - **References**

1. GSM 02.30 version 5.7.1 Release 1996 - Man-Machine Interface (MMI) of the Mobile Station (MS)
2. Dean Leffingwell & Don Widrig ,"Managing Software Requirement A use Case approach", Pearson
3. Arnold Berger, "Embedded Systems Design – An Introduction to Processes, Tools, and Techniques", CMP Books
4. IEEE Std 1233, 1998 Edition, IEEE Guide for Developing System Requirements Specifications.
5. IEEE Std 829-1998 Edition, IEEE Standard for Software Test Documentation
6. K.J. Ross & Associates Pty. Ltd," Practical Guide to Software Testing" Bart Broekman& Edwin Notenboom, Testing Embedded Software", AW
7. Robert Cillbertson& Cary Cobb, "Rapid Testing", PTR

Project Name: G11+ (GSM/WAP CSTN, 16-polyphonic tones handset)

Responsibilities:

⊠ Supplementary service Man-Machine Interface debugging and implementation in ANSI-C.

⊠ Develop Engineering Mode of Project G11/G11+ for Field Try team.

- ❏ GSM servicing Cell Information presentation:
- ❏ GPRS servicing Cell Information
- ❏ Neighbor Cells Number and BCCH (Broadcast Control Channel) query
- ❏ Paging rate
- ❏ PLMN (Public Land Mobile Network) Information
- ❏ Cipher and Hopping Status
- ❏ International Mobile Subscriber Identity (IMSI) and IMEI (International Mobile Equipment Identity) presentation

⊠ Develop Project G11+(GSM/GPRS, WAP Colorful handset) device Test Mode for PE.

- ❏ LCD driver test
- ❏ Keypad driver test
- ❏ Ring Tone Test
- ❏ Plug-In
- ❏ IMEI (International Mobile Equipment Identification) and IMSI
- ❏ DAI (Digital Audio Interface)

⊠ Developing GSM /GPRS Man-machine Interface test plan.

⊠ Formalize GSM/GPRS handset Man-Machine Interface System states to regular-expression and Finite State Automata by Graph-Based Test method.

⊠ Develop Man Machine Interface system test cases

⊠ Setting, Call log , Supplementary service , PIM , Agenda , man-machine interface implementation

⊠ **References**

1. Miro Samek, "Exceptions or a Bug?", C/C++ Users Journal ,Vol. 21, No.8 , August 2003
2. Jack Reeves, "Exceptional and Debugging", C++ Report, 1996
3. Richard Nies, "Tracing Exceptions with an Exception Stack", C/C++ Users Journal, April 2002
4. H Muller, "Ten rules for handling exception handling successfully", C++ Report Jan. '96

5.   Peter van der Linden, Expert C programming Deep C secrets, Prentice Hall PTR, 1996

6.   Guidelines for Writing a SOP for Mass Spectrometry.

7.   David Grusenmeyer,"Developing Effective Standard Operating Procedures"

8.   Calypso/Iota/Clara System Application Note- APN0 Ver 1.2,Texas Instruments

9.   Current consumption of Calypso/Iota based chipset in idle modes - APN02 Ver 1

10.   GSM 02.81 version 7.0.0 Release 1998 - Line identification Supplementary Services   - Stage 1

11.   GSM 02.82 version 7.0.0 Release 1998 - Line identification Supplementary Services   - Stage 2

12.   GSM 02.83 version 7.0.0 Release 1998 - Line identification Supplementary Services   - Stage 3

13.   GSM 02.88 version 6.0.0 Release 1997 - Call Barring (CB) Supplementary Services   - Stage 1

14.   GSM 02.84 version 6.0.0 Release 1997 - MultiParty (MPTY) Supplementary Services - Stage1

1998/08 – 2002/09   Wireless Business Unit, Quanta Computer Inc., Lin Kuo

Senior Software engineer

Project Name: TCC® S500/S550

Responsibilities:

⊠ Develop PIM (Personal information management) system
⊠ Supplementary services Man-Machine interface implementation
⊠ Phonebook man machine interface module implementation
⊠ Man-machine interface test cases design and execution
⊠ Call log function design and MMI implementation

Project Name: Skiff (Product Name: **Giya E320)**

Responsibilities:

⊠ Man-Machine Interface design and remodel and Man-Machine Interface Application phonebook design.
⊠ PIM system implementation
⊠ Supplementary services Man-Machine interface implementation
⊠ Call control man-machine interface implementation
⊠ Man-machine interface test cases design and execution

Project Name: Ferry (Product Name: **SIEMENS**® C45)

Responsibilities:

⊠ Develop the Machine Interface of supplementary services and implementation.
⊠ Man-machine interface debugging
⊠ Design Ferry project Man-Machine Interface test cases

Project Name: Aviso/Skiff

Responsibilities:

⊠ Develop the Machine Interface of supplementary services design.
⊠ Phonebook man-machine interface implementation
⊠ Design Ferry project Man-Machine Interface test cases

Project Name: Panasonic® GD51

Responsibilities:

⊠ Develop the man-machine Interface of supplementary services design.

- ⊠ Phonebook /Call log / Setting / profile man-machine interface implementation
- ⊠ Design and implement Agenda (PIM) system.

Skills and abilities

- **High level programming languages , shells and query languages:** C/C++, Java, SQL, HTML, Modeling Language - UML

- **Low level programming languages:** x86/8051

- **RAD tools/IDEs:** Delphi, C++ Builder, Visual studio, Eclipse

- **Operating platforms:** DOS/Windows , Unix

- Software testing

- Object oriented software design and analysis in UML

- Software requirement specification design

- Firmware design

Favorite journals

- C/C++ Users Journal
- Dr. Dobb's Journal
- Software Development Magazine
- C++ report

References: Available upon request.