<div align="center">

Summary Curriculum Vitae
Stephen P. Reid

</div>

Experience: 30+ years in IBM Mainframe Software Development, Systems Programming and Training.

Expertise: **Assembler, PL/I, Cobol, REXX, CICS, DB2, SQL, VSAM, MVS, OS/390** and **Z/OS.**
Lecturer, Systems Programmer, Systems Analyst, Applications Designer and Programmer.
Debugging and Tuning Specialist. Also very knowledgeable in Micro Focus Enterprise Suite.

Aus. Address: 7 The Crescent, Chatswood, NSW 2067   **Phone:** +61 414 777 343
USA Address: 3959 Fairlands Drive, Pleasanton, CA 94588   **Phone:** +1 (925) 452 6567
Citizenship: Australian with US Permanent Residency   **Memberships:** MACS, Mensa
Email: StephenPReid@outlook.com   **LinkedIn:** StephenPReid

<u>**Work History:**</u>

Formed **Antares Computing Pty Ltd** in 1979 and since then have specialized in the following areas and roles.

Jan'15→Current Converted the sequential file access technique from 31-bit to 64-bit, making it patentable and completely revolutionising sequential file processing in batch. This technique is now sought after by both Oracle and IBM, as it reduces the overhead to less than 1% of the overhead associated with QSAM file processing.

Jan'15→Current Joined The Business Agility Group (TBAgility.com) as their specialist consultant in **Assembler**, **PL/I**, **Cobol**, **CICS, DB2 & VSAM.** This involved **Agile** development on each of several projects, including replacement of Easytrieve Plus with IBM's Migration Utility and making CICS file handling cloud-based.

Jul'14→Dec'14 Added **CISCO** and **Microsoft** qualifications in **Internet, Networking**, **Server 2012** and **Windows 8.1. Certificate 4 in IT Networking and Support** including **CCNA1, CCNA2, MCSE** and **MTA.**
Now using this knowledge to maintain and upgrade the computer systems for several Sydney clients.

Dec'13→Jun'14 Designed and developed a Parking app for use by local government to reduce costs and significantly improve the user experience. This also involved use of social media and Search Engine Optimisation.

Apr'13→Dec'13 Developed a threadsafe version of a technique in **Assembler** that dramatically reduces the overhead of sequential file accesses under **CICS**, by better than 99%. This is now being implemented worldwide.

Dec'11→Mar'13 Joined Micro Focus as Solution Architect specializing in **Assembler**, **PL/I**, **Cobol**, **CICS** & **DB2.** Migrated several large systems from IBM mainframe to distributed alternatives, creating millions in savings. Identified optimum components and procedures for each implementation. Also contributed to the new Micro Focus PL/I compiler, developing several optimisation procedures and techniques.

Mar'11→Sep'11 Accepted an urgent short term contract to convert the Indue Credit Card system to comply with the latest **Payment Card Industry Data Security Standard** encryption requirements, consistently delivering the modifications ahead of the schedule estimates. Also updated their training and documentation, and devised technically viable, efficient solutions to the clients' specific requirements.

Aug'10→Mar'11 Completed formal **Training And Assessment Certification** (**TAA** and **TAE**), so as to validate the training and mentoring that I provide in all my areas of expertise, particularly PL/I, Cobol, CICS & DB2.

Jun'10→Aug'10 Macquarie recognized a need to update several of their current Cobol/DB2 CICS programs, as well as the creation of several new DB2 CICS programs with a focus on functionality, efficiency and user-friendliness. I was contracted to achieve these changes single-handedly and with a very tight timeline. In this role I worked directly and closely with the client and business analyst to develop solutions that fulfilled the client's needs most comprehensively and efficiently, which was greatly appreciated by both.

Apr'08→Oct'09 Joined **CSC** as Senior Systems Programmer supporting **CICS & DB2** clients worldwide. Developed new utilities in **PL/I, Cobol** and **Assembler** providing debugging and tuning facilities for multiple CSC systems. Designed and developed several application systems with emphasis on efficiency and functionality, and guided CSC's programmers in optimizing their code and enhancing their quality assurance. Provided **Cobol, CICS** and **DB2** support for many Fortune 500 projects. Installed **Websphere** and liaised with IBM, BMC and CA support for multiple tuning and debugging tasks for each of these international companies. This role involved a lot of migrations for these companies, both in terms of upgrades and conversions.

Aug'07→Mar'08 Invited back to **EDS** to convert the **Commonwealth Bank**'s entire ATM network from channel to **TCP/IP** connection using **Cobol, Assembler** and **z/OS SubSystem** technology, which involved the design and implementation of solutions for the communication interface between the bank and

Mastercard. Also enhanced the Optus database processing using **VAX Cobol** and **Oracle RDB**, optimizing the complex **SQL** queries involved and identifying new functionality that became possible with the new system design.

Jun'06→Aug'07 Working with **IBM**'s **Australia Development Laboratory** in their Level 3 support team, on FileManager and Omegamon utilities, particularly on the Version 8 enhancements to **FileManager/DB2, CICS** and **VSAM**, plus modifications and enhancements to **Omegamon CICS**. This work involved highly technical coding in **Cobol, PL/I, PLX, Assembler, REXX** and **ISPF**, solving APARs and addressing enhancement requests, focusing on **CICS** and **DB2 optimisation** to achieve maximum throughput and functionality.

Feb'06→May'06 Joined Suncorp-GIO for a short-term project as Senior Technical Specialist, with their Banking, Finance and Insurance systems. Worked with **Cobol** and **COGEN**, and enhanced their Production jobstreams by using **REXX** and JCL skeletons to tailor the batch jobs generated from TSO/ISPF panels. Also incorporated mechanisms to make the migration through **Endevor** to Production, completely automatic.

Aug'04→Dec'05 Returned to Australia and joined **EDS** to design and develop a mission-critical application for Australia's largest bank. Overcame the system challenges by creating an extremely efficient file access method in **Assembler** and wrote a suite of **CICS** interface routines for use in **Cobol** and **PL1** to dramatically improve response time. Wrote reconciliation systems in **Cobol** for transactions between the bank and Mastercard.

'03 → '04 Rejoined **Tier US** to further extend the breadth of my knowledge and understanding of **Financial** and **Insurance** systems and the areas in which I specialize, especially **Cobol, PL/I, Assembler, CICS, DB2**, and **OS/390**. Updated my systems programming experience to include **z/OS**, and used **REXX** to develop several system utility functions. Enhanced the functionality of modular systems for Tier's Financial and Insurance clients, particularly with regard to the interface between the mainframe and midrange clients.

Worked onsite at **JP Morgan Chase** on their very sophisticated financial and banking systems, especially in the areas of global funds transfer, risk assessment and interfacing with SWIFT. Involved in major conversion projects for **Hudson** and **Bank One**, during which I was able to dramatically improve the efficiency and execution time of the core Assembler modules, thus significantly reducing the overnight processing time. Wrote Assembler Macros to optimize and standardize the batch interfaces.

I also developed and presented in-depth training on their **System Development Life Cycle** and integration with **Endevor**, and created interactive Powerpoint presentations and self-study modules covering the SDLC methodology, with dynamic links to live Word examples of each phase.

Designed and developed a technique that reduced average CICS response times by better than 40%.

'02 → '03 Returned to the United States in order to complete the residency requirements for US citizenship, which I have now fulfilled. Accepted the role of **PL/I**, **DB2** and **VSAM** specialist in an innovative new bill archive and retrieval system for America's largest telecommunications company Verizon, using IBM's new Object Access Method. The project made use of my extensive knowledge of **Assembler** and **PL/I** to develop and tune the interface between the applications and the access method. It also involved a novel use of XML generated by the PL/I programs, thereby extending and enhancing my knowledge of XML as well.

'00 → '02 Transferred to **Tier Australia** to be close to my aging mother during her final months. Converted large-scale CICS Assembler system to Cobol/390 Command level for **Allianz**, one of Australia's largest insurance companies. Updated and enhanced their **General Insurance** modules. Developed a method of allocating storage in both CICS and batch modules, saving Allianz huge conversion costs.

Designed, developed and implemented a leading-edge **PL/I CICS DB2** system for **Fortis**, one of the world's largest insurance companies, involving **PC connection to CICS** and the execution of batch and CICS transactions remotely via the internet using DB2 Stored Procedures in a new technique that I developed specifically for PC to mainframe internet connectivity. This technique is now used worldwide.

Used RescueWare in several projects analyzing legacy systems and converting them to **Java**. Developed sophisticated conversion systems in **REXX** and explored the new features of CICS/TS 2. Installed **IBM's Debug Tool** and developed training materials for the staff's conversion from **Expediter**.

Designed, Developed and Implemented an **Access Database** and enquiry and reporting facilities for the University of Sydney. This system provided vast functionality improvements over their previous system, and considerably exceeded all their expectations especially in the area of data extracts and reporting.

'98 → '00	Joined Tier Technology Training in the United States as Senior Instructor in PL/I, DB2, SQL, VSAM, Cobol and Assembler, MVS, TSO, ISPF, JCL, CICS (Programming, Debugging and Internals). Developed and delivered advanced PL/I courses for EDS, Liberty Mutual and several other Fortune 500 companies. I also developed and updated the Tier course materials and was appointed Languages Course Manager.
'97 → '98	Developed the CICS LU6.2 interface to DEC/VAX for the Commonwealth Bank Merva SWIFT settlement system, using new CICS capabilities, advising and working closely with the bank's system programmers. Enhanced the functionality and efficiency of several of the bank's financial systems in Assembler.
'95 → '97	Specialist consultant in **PL/I, Assembler** and **DB2/SQL** for a very large Teradata data warehouse project between **Qantas** and British Airways. Responsibilities included system efficiency, tuning, debugging and programmer training. I also designed and created several system utilities in both PL/I and Assembler, which optimized and streamlined the database access and dramatically reduced the online response time and batch job durations.
'93 → '95	Developed Computer Based Training courses in Cobol, Assembler, CICS Programming and Debugging, for worldwide distribution through DATATRAIN (one of the world's biggest CBT companies).
	Also designed and developed many system utility routines in PL/I, Cobol and Assembler, particularly for MVS and CICS/ESA. These are now also distributed worldwide.
'92 → '03	Developed and presented courses in Cobol, PL/I, Assembler, CICS/ESA, VSAM, & MVS throughout Australia and Southeast Asia. The courses have been presented on behalf of Aspect, IBM, Computer Power, EPS and public courses through my own company and my agents overseas.
'91 → '92	Consultant, systems analyst, designer and programmer for a large leading-edge CICS, Assembler, PL/I, DB2 system for Sydney Electricity. Tuning the system in relation to PL/I, CICS and DB2 were important aspects of my responsibilities in this project, as well as liaising with the users, who were more than satisfied with the result. The project was completed on time, under budget, and substantially exceeded performance specifications.
	During this time I designed and implemented a CICS application development system and supporting utilities, which reduce the normal CICS application development time dramatically.
'81 → '91	Invited back to Altergo (now named Aspect Computing), as their main lecturer and consultant in Sydney, in charge of CICS, Assembler, PL/I and MVS, and backup for their main DB2 and Cobol specialists. Developed and updated many courses in CICS Programming and Debugging, PL/I, Cobol II, Assembler and MVS, and delivered these courses throughout Australasia and Southeast Asia.
	I was also often required to develop special system and utility routines in Cobol, PL/I and Assembler, and to solve problems encountered by Aspect's other contractors. In this role I was particularly involved in optimizing and tuning various CICS application systems as well as CICS itself.
	Commissioned by IBM to write the Instructor's Guide for their MVS Internals course.
'80 → '81	Systems Engineer and Program Support Representative for National Advanced Systems (IBM compatible mainframe), supporting their MVS clients. Further developed my MVS & VSAM internals expertise.
'79 → '80	Consultant for Altergo as System Programmer, Application System Designer and Developer, and Lecturer specializing in CICS, Cobol, PL/I, Assembler, VSAM and MVS. Worked with VSAM internals and tuning.
'75 → '79	Systems Programmer for Ansett Airlines, specializing in Assembler, PL/I, CICS, VSAM and VS1-MVS. Acted as Assembler reference consultant for the IPARS group. Installed and maintained the CICS network, designed and developed MVS internal systems (e.g. Tape Management System marketed as TMS). Managed, coordinated and implemented the large and complex conversion from VS1 to MVS.