

# CURRICULUM VITAE

<b>Name</b>	<i>Evangelos (Vangelis)Pappas-Katsiafas</i>
<b>Date of birth</b>	28 June 1969
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<b>Resumé</b>	<p>Vangelis is passionate about deploying computer graphics, software engineering and other aspects of science and technology to make the world a better and fun place to live. He has a wide variety of skills ranging from technical, to creative and managerial ones. He is a seasoned and dedicated software engineer with strong scientific and electrical engineering background. He has experience in designing and implementing elegant user interfaces and visualisation methods with high degree of usability and innovation. He is also a great communicator with very good interpersonal skills and customer facing experience. In his past roles and positions Vangelis has been a technical authority and has carried out team leadership tasks for several periods of time. He likes problem solving and has a can-do attitude.</p> <p>Vangelis has recently been working on many aspects and layers of mobile technology from firmware and board schematics, through middleware, Hardware Abstraction Layers, to the top layers of mobile app development. His main areas are imaging/camera, 3d graphics and multimedia.</p> <p>He works for a world leader in wireless and multimedia technologies where he has been responsible for developing and delivering crucial work packages to customers successfully and within challenging timelines while carrying out his line management tasks with equal success. He has also been involved with consultancy, patents, technical white papers, conference organization and presentation, paper publications, technical demos, public key infrastructure, security and cryptography, customer negotiations, working at customer sites, requirements capture, training organisation, career path design, technology watch, outsourcing, spin-outs, start-ups, and departmental restructure.</p>

**Technical  
experience**

- **Broadcom Europe Ltd** (Sept 2011 – Aug 2014): Imaging and 3D graphics engineer. Worked from lower layers like firmware for SIMD vector processor to higher layers like Android Hardware Abstraction Layer (on an ARM cpu), and Android apps. C, C++, Java, Metaware debugger, Linux, Android/AOSP/TouchWiz, git, Gerrit, board schematics, XJTAG, D-Stream. Imaging pipeline (CSI, ISP, Bayer, YUV, 3A algos, sharpening, denoise, etc.) Android camera HAL API, 3D graphics pipeline, OpenGL ES 2.0 (apps, client, tracing, Linux device drivers). Heterogeneous processing. Core development and customer support.
- **Visual Perception** (March 2008 – present): 3D GUI design and development, 3D graphics, OpenGL/ES, mobile devices, iOS, Android, Symbian S60, Windows mobile, Android, User Interfaces. New business creation and development, including IP/patents and mobile apps.
- **Cambridge Silicon Radio** (Jul 2010 – Aug 2011): Host applications development for wireless chips. C, C++, embedded C, wireless protocols, Bluetooth, Wi-Fi.
- **Ubintecs/Aeroflex Cambridge Limited**, Cambridge UK. (Jan 2005 – Jul 2010): Development of control software for state-of-the-art mobile communication products and protocols. C++, C#, .Net, STL, Win32, computer graphics, Postgres, UMTS/LTE, system architecture, design, requirements specification, TCP/IP, FTP, HTTP, SMS, video telephony, voice/audio telephony, modem. Architecting, designing and implementing high performance, multithreading, complex applications with sophisticated GUI, multiple network connections and a high number of components. Organising a software build, release and testing system for several configurations. Communication protocol design. System comprising heterogeneous platforms. Managing common components between an embedded and non-embedded domain/OS. Collaborating and working within a multidisciplinary group (size > 50) of very talented engineers. Additional responsibilities: line management, recruiting, skill group leader, deputy team leader.
- **Overview Ltd**, Ware-London UK. (Jan 2003 – Jan 2005, permanent.) Subject: Intelligent Networked Surveillance system. System design, software architecting, C/C++, Linux, ARM-Linux, embedded Linux, Debian/GNU, networked multimedia, Apache, MySQL, IP and secure networking, PKI certification authority, digital signatures, GPRS, Java, .Net, C#.
- **Symbian Ltd**, Cambridge-London UK. (July 2002 – Jan 2003, contract.) Subject: Operating system for Mobile Information Devices. Software Engineer, member of the Multimedia team within the Systems Software Group. Technology: Symbian OS, C++, embedded C++, multimedia, graphics, mobile devices.
- **Sagentia** (formerly **Scientific Generics**), technology consultancy, Cambridge UK. (Oct 2000 – Feb 2002) Role: technology consultant, expert in media streaming, IP networking, e-commerce, computer graphics programming and visualisation. Service Mobility Lab, Communication Technology division. Projects (all successfully delivered):
  - ✓ design and development of a secure, distributed, 2D-barcode internet ticketing application. Java, XML, Oracle 9i, Servlets, Apache, PKI, cryptlib.
  - ✓ design and development of a Java-XML, real-time graphical viewer of positional horse race data.
  - ✓ design and development of a wireless video streaming prototype application and a web based application for video content browsing. MS Visual Studio 6.0 (C++, Interdev, ASP, VBScript), SQL Server, IIS 5/Win2K, Windows Media Streaming, embedded Visual C++ (PocketPC.)
  - ✓ design and development of a multimedia application for the Symbian-based, Nokia Communicator 9210 (Crystal SDK)
  - ✓ design a secure mobile phone system. GSM technology, SMS, SIM toolkit, cryptography.
  - ✓ Technical due diligence on audio/video compression and streaming, IP multicast, and e-commerce platform provider.The consultant role incorporates active involvement in internal innovation process for IPR generation, and continuous technology-watch for a number of relevant areas. The Service Mobility group is specialised in 2G and 3G mobile networks, systems, applications, and other types of wireless and wireline web services. Other tasks in the group include web server maintenance, internet and WAP programming.
- **BT Exact** (formerly **BT Labs**), the R&D division of *British Telecom*. (Aug 1998 – Oct 2000)
  - ✓ Design and development of a web-enabled, video streaming system. MS VC++, H263+, MPEG-4, Windows sockets. Team leadership. (May – Oct 2000)
  - ✓ Distributed systems group, Building a PC-based, IP network (4 routers) for video streaming with guaranteed Quality of Service (QoS) support. Technology: IP networking, ethernet, FreeBSD (unix) router, video streaming. (Jun 1999 – Oct 2000)
  - ✓ Distributed Systems group: Building a multimedia virtual teleconference space, accessed by multiple heterogeneous client device. The 3D virtual space quality, and the media quality are adaptable according to each client's resources. Technology: MS Visual C++, OpenGL 1.1/GLUT, Real-Time Audio/Video streaming, 3D Studio MAX 2.0, IP network, Quality of Service. (Feb 1999 – Jun 1999)

- ✓ e-commerce Unit. Developer of e-commerce applications over the internet, using C CGI scripts, embedded SQL, servlets, JDBC, Oracle 8/Solaris, TCP-IP network programming, and Netscape enterprise web server. (Aug 1998 – Jan 1999)
- **PGS Tigress**, Software Engineer (Sept 1997 - Aug 1998). Design & development of Visualisation software for the oil exploration industry, using the 2D/3D graphics library AVS/UNIRAS, agX Toolmaster, Motif GUI building tools. C, Oracle, Sybase, Solaris, AIX.
- **Vodafone Ltd.**, Engineering Computing department, Intermediate Software Engineer (Jan 1997 - Sept 1997.) Vodafone is the biggest GSM network operator in the world. Design and development with C++, in a distributed, client-server, networked environment, utilising the Dais CORBA implementation, and SQL / Oracle Rdb 7.
- **UMIST**, Dept. of Computation (Oct 1995 - Jan 1997.) Research Associate, DTI/EPSRC funded project #8028: “*CHRONOS*” an integrated environment for planning and scheduling applications. MS Visual C++, ORACLE 7.1 for Solaris. The project involves Client-Server (UNIX-Windows) communication, ODBC connectivity, direct SQL calls, spreadsheet functionality, and network configuration (TCP-IP.) Partners: ICL, Imperial College, Lloyds Register.
- **TETRAPAK HELLAS S.A.** (1994.) Part time job as programmer and consultant of information systems . Designed and delivered MS Excell and Word course.

#### Education

- **MSc by research** in Information Systems Engineering, at the University of Manchester Institute of Science and Technology (UMIST) 1994-1995. Subject: *Temporal Databases and Visualisation*.
- **Phd candidate** and **research assistant** in UMIST (Subject: *Interactive Visualisation on Temporal Databases, using Virtual Reality techniques, 1995-1997*)
- **BSc (5-year)** in Electrical and Computer Engineering. National Technical University of Athens. Graduation in March 1994.
- *Graduation* from 4th **Lyceo** (High School) of Trikala, Greece, in June 1987.

#### Professional memberships

- IEEE (Computer Society) since 1992.
- ACM (SigCHI, SigGraph) since 1993.
- The UK Virtual Reality SIG since 1994.

#### Publications

Patent: GB2461757, “*Image Browsing Methods*”, 21 November 2012  
 Patent: GB2487844 , “*Displaying images as a spiral of helix film strip*”, 8 Aug 2012  
 “*Quality of Service Management for a Media-Enhanced Virtual Meeting Place*”, 6th Eurographics Workshop on Virtual Environments, EGVE '00, June 1-2, 2000, Amsterdam, The Netherlands.  
 “*Interactive Querying and Visualisation in Temporal Databases*” First International Post-Conference Workshop on the Integration of Knowledge Discovery with Deductive and Object-Oriented Databases (KDOOD'95), Singapore, December 8, 1995.

#### Seminars, conferences and industry events

Vangelis has been attending various conferences, seminars, courses and industry events throughout his career to keep up to date with the latest technological and commercial developments. Selected events:

- Linux device drivers and Android – a Linux foundation course, June 2014.
- Image sensors Europe 2014.
- Mosaic3DX 2013, Oct 2013, Cambridge. 3D graphics conference.
- Mobile World Congress 2010, Barcelona, Spain.
- International Human Computer Interaction conference 2009, Cambridge UK.
- Programming courses and conferences on software architecture, .Net, Java, C++, UML, Object Oriented design, mobile platform development open source software, Symbian, distributed systems, networking and the internet.
- Courses and events about visualisation, computer graphics, multimedia, video and media streaming.
- Courses and events about fixed and mobile computer networks (e.g. TCP/IP, UMTS, LTE) and security/cryptography.

<b>Academic Projects</b>	<ul style="list-style-type: none"> <li>• “<i>EuOrasis II</i>” Visualisation on Temporal Databases using Virtual Reality techniques’. PhD project, phase one. Development of advanced, virtual reality visualisation methods for time-varying data. Unix (Solaris), NT, Oracle/SQL, C/C++, OpenGL, Open Inventor 2.0, VRML2.0/97.</li> <li>• “<i>EuOrasis</i>” Building and Integrating an Interactive Visual Data Browser to a Temporal Database’. MSc by research project. Development of interactive 3D visualisation methods, emphasising the temporal dimension of data. Development platform: Sun Solaris 2.4, C/C++, X/Open Windows, SPARCWorks 3.0.1, SunPHIGS 3.0, XVT 3.0 portability GUI toolkit , INGRES v6.4 for Solaris, ESQL, embedded SQL language.</li> <li>• “<i>GRAPHMAN</i>” an approach to 2D geometrical transformations’. Final project for the completion of the Electrical &amp; Computer Engineering degree, Athens, Greece, 1993-1994. Development of an interactive application for the demonstration and comprehension of 2D geometric transformations, featuring animation. Development platform: MS Windows 3.1, Borland Turbo C++ v3.1. Object oriented design, extensive use of MS Windows 3.1 API/GDI.</li> <li>• <i>System administration</i>. Partial H/W, Database, and S/W administration of the group laboratory computing equipment (4 Suns, 6 PCs, 2 laser printers under TCP-IP network, Ingres, Oracle.)</li> <li>• <i>Miscellaneous</i>: Internet publication and Graphic design. Involving HTML authoring, and production of several graphic designs, using image processing, 2D, and 3D design packages.</li> </ul>
<b>Teaching experience</b>	<ul style="list-style-type: none"> <li>• Sept 2013 – Jul 2014 – Code Club teacher for primary school. Scratch, Python, Raspberry Pi Minecraft API.</li> <li>• Dec 1994 - Dec 1995: Demonstrator at the department of computation laboratories, UMIST, Manchester, UK.</li> <li>• Feb.1994 - May 1994 : Organising, teaching seminars about office automation.</li> <li>• Dec.1991 - May 1993 : Organising, teaching seminars in various fields of computer science for “Analysis Pliroforiki SA”, Athens, Greece.</li> </ul>
<b>Fields of interest</b>	Visualisation, computer graphics, 3D graphics, imaging, HCI, computer networks, Internet applications, databases, wireless/mobile applications, security, virtual/augmented reality, information systems, e-commerce, photography, cycling.
<b>Languages</b>	<i>English, Greek, Spanish</i> (advanced.) Also conversant with other European languages.
<b>Driving License</b>	Full UK, EU standard class A (all motorcycles,) B (any car less than 3.5Kkg.)
<b>References</b>	References will be provided on request.