

## Curriculum Vitae

Name: Nikos  
Prenome: Sfiris  
Birthdate: 01.01.1964  
Birthplace: Athens  
Marital Status: Married, one child  
Military Service: 21 months as Analyst-Programmer  
Address: 9, Arkadias str., 152 36 Athens, GREECE  
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email: nsfiris@yahoo.gr  
Languages: English - Very Good  
French – Good

### Summary of qualifications

#### Education

1982 - 1986 He studied at the Mathematical School of the University of Patras and he received the Degree of Mathematician after a six month degree-work entitled “**Z-80 Assembly Language Interpreter Program**”.

1986 - 1991 Postgraduate studies at the Medical School of the University of Patras. He did his Thesis on the “**Influence of the bicarbonate pool on the occurrence of  $^{13}\text{CO}_2$  in exhaled air**”. He received the Degree of Ph.D. and he was trained in Medical Informatics under a five-year Scholarship of the National Foundation for Scholarships.

#### Seminars

Nov 1987 He was trained in the RDBMS Oracle at the Computer Center of the Ministry of Health.

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| Apr 1992     | He was trained in Telemedicine at the University of Athens under a seminar organized by the Department of Medical Physics.   |
| Jun 1996     | Free text Retrieval seminar, Fulcrum Corp., Paris, France.   |
| Sep 1997     | EDI, Harpinger Corp., Atlanta, U.S.A.  |
|              | <b>Professional experience</b>   |
| 1986 - 1991  | He was appointed as Postgraduate Fellow in the Laboratory of Medical Physics of the University of Patras.  |
| 1991 - 1992  | He served the Greek Air Force as Analyst - Programmer (military service).  |
| 1992 - 1993  | He was appointed as Senior Researcher at the Institute of Biomedical Technology. He was co-responsible for a multimedia project with main subject the development of "A multimedia training tool in radiographic image quality".               |
| 1993 – 1995  | He was appointed as Head of the Dept. of Research & Development in Ethnodata S.A., an informatics company that belongs to the National Bank of Greece group of companies.  |
| 1995-2005    | C.E.O. in Hitech Consultants S.A. Hitech Consultants was involved in the following areas : Multimedia Systems, Biomedical Equipment, MIS, Electronic Document Management Systems, Electronic Commerce Systems. Listed on Athens tock Exchange. |
| 2005-today   | He is R&D Director in B.I.M.A. S.A., a Management Consuting firm establishd in Athens, Greece.   |
| 2014 - today |  |

### **Experience in Computer Systems**

1. Operating Systems: MS-DOS, MacintoshOS, UNIX.
2. Object Oriented Managers: Windows, Finder, X-Windows.
3. Languages: Assembly Z-80, FORTRAN, BASIC, COBOL, PASCAL, C.
4. Data Bases: File-Maker, dBases, ORACLE, Access, FoxPro, dBFast.
5. RDBMS Languages: Clipper, SQL\*Plus, Access Basic, dBFast.
6. MultiMedia Languages: ToolBook, Authorware, VisualBasic.
7. Simulation Languages: SIMNON, SAAM.

### **Fellowships**

1986 - 1990 Fellowship of the Greek National Foundation for Scholarships.

### **Teaching Experience**

1984 - 1985 He gave a series of lectures about the Z-80 Microprocessor to the students of the 3rd year of the Mathematical School of the University of Patras.

1986 - 1990 He participated in the organization and the implementation of the Laboratory Exercises of Medical Physics and Biostatistics for the students of the 1st year of the Medical School of the University of Patras.

1988 – 1994 He gave a series of lectures about the Structure of a Microcomputer to the students of the 2nd year of the Medical School of the University of Patras.

1990 - 1994 He organized the Laboratory Exercise of Medical Informatics for the students of the 1st year of the Medical School of the University of Patras.

- 1991 - 1993 He participated in the organization and the implementation of the seminar: Computer Application in Biostatistics for the Physicians of the University Hospital of Patras.
- 1993 - 1994 He organized and realized a series of lectures about the Medical Informatics for postgraduate students from all countries of European Community that had been attending the Course “Medical Physics and Biomedical Technology” (ERASMUS EC Program) organized by the Medical School of the University of Patras.
- Oct. 1994 He elected as professor of informatics in the National Center of Public Administration.
- Jun. 1995 He is invited speaker in the 3rd CATAI Summer School for Telemedicine. The theme of his lectures is: "Telemedicine Support for Ambulance Services".
- Sep 2007 He elected as lecturer on Medical Physics Laboratory in University of Patras.

#### **Professional memberships**

Greek Mathematics Association  
 Greek Computer Society  
 Greek Society of Medical Informatics  
 European Society for Engineering and Medicine  
 American Medical Informatics Association  
 Society of Applied Learning Technology  
 IEEE Computer Society

#### **Participation in European Union scientific projects**

- 1989 - 1990 He participated in the project: “An Information System for the Library of University of Patras”, which was financed by the Ministry of Education. The software system produced from this project was presented in the “6th Panellenic Conference of Librarians” (Athens 1990).

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| 1989 - 1990 | He participated in the first three phases (requirement analysis and software design) of the project “Development of a Biomedical Management System of a Hospital”, which was financed by the Ministry of Health.  |
| 1992 - 1993 | He was co-responsible for the project: “A hypertext - based enhancement of radiographic image quality training”, which was financed by the EUROFORM Program. The software produced from this project was presented in the "2nd European Conference on Engineering and Medicine” (Stuttgart 1993) (12) and the “12th International Conference on Medical Informatics” (Lisbon 1994) (16). The final results of the project have been published in the “Medical Informatics” Journal (2).   |
| 1992 - 1994 | He participated in the project: "Development of infrastructure in the field of Biotechnology (Biotech-Net)”, which was financed by the STRIDE HELLAS Special Action.  |
| 1993 - 1995 | He participated in the project: "Development of digital processes for high quality mammographic analysis”, which is financed by the General Secretariat for Research and Technology. This project will lead to the integration of the scientific work, started two years ago for the correction of mammographic images. The results of the project have been presented in the “I International Conference on Digital Signal Processing and II International Conference on Computer Application to Engineering Systems” (Nicosia 1993). (13) and have been submitted for publication in the “Journal of the American Medical Informatics Association” (5). |
| 1994 - 1995 | He participated in the project: “Multimedia Training in Banking : MULTIBANK”, which is financed by the MULTIMEDIA ESPRIT SPECIAL ACTION.  |
| 1994 - 1995 | He participated in the project: "Innovative Training in the Service Industry Using Multimedia”, which was financed by the MedCampus Program.  |

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| 1994 – 1996 | He participated in the project: “Development and Standardization of new DYNAmic RADiotherapy technics : DYNARAD”, which is financed by the BIOMED II Program.   |
|             | <p><b>Hospital experience</b></p>   |
| 1986 – 1991 | He participated in the establishment of Biomedical Technology Dept. of the University Hospital in Patras. (Prof. N. Pallikarakis).  |
| 1988 - 1992 | <p>He participated as team leader in the design and development of various software tools for clinical use:</p> <p>Lab of Pathologoanatomic – Prof. D. Bonikos,<br/> Pediatric Clinic – Prof. N. Beratis,<br/> Nephrology Clinic – Prof. I. Vlachogiannis,<br/> Medical Physics Dept. – Prof. K. Kappas).</p> |
| 1992 – 1993 | He participated an a team leader in the research and implementation of digitization and enchanced of mammographic images. The technic used from the Lab of Medical Physics and the Chergical Clinic (Prof. G. Panayiotakis).  |
| 1993 – 1994 | He participated in the reorganization and the implementation of electronic data processing system in the surgeries of the Relief and Health Fund of National Banks’ personnel (EthnoData S.A.).   |
| 1994 – 1995 | He participated in the development of a software package for the administration of the General Hospital of Xanthi. (National Deverlopment of North Greece S.A.)   |
| 1995        | He participated in the team for the project management of the Customer Relation Management System of IASO (GNOMON S.A.).  |
| 1995 – 1996 | He participated in the team for the study of the reorganization of the Greek Hospitals (DEPANOM).   |
| 1996 – 2002 | As a Managing Director of Hitech Consultants S.A. he participated in many projects for the reorganization and implementation of electronic data processing systems for different parts of IKA (1st degree treatment, Hospital Clinics and disability committees).   |
| 2006 - 2007 | He participated in the studies for the reorganization of Labs in IKA (BIMA S.A.)  |

## **Publications**

### **In International Refereed Journals**

1. Pallikarakis N., Sphiris N. and Lefebvre P.: Influence of the bicarbonate pool on the occurrence of  $^{13}\text{CO}_2$  in exhaled air. *European Journal of Applied Physiology* 63: 179-183, 1991.
2. Kostaridou L., Sphiris N., Panayiotakis G., Pitoura T. and Pallikarakis N.: A hypertext - based enhancement of radiographic image quality training. *Medical informatics* 18(4): 331-8, 1993.
3. Sphiris N. and Pallikarakis N.: A computer program for estimating the influence of the body bicarbonate pool during  $\text{CO}_2$  breath tests. *Computer Methods and Programs in Biomedicine* 46: 225-232, 1995.
4. Sphiris N., Likaki H, Tzorakoeleftherakis E., Panayiotakis G. and Proimos B.: A software tool for the preoperative evaluation of the breast cancer size. *Technology and Health Care* (under revision).

### **Submitted In International Refereed Journals**

5. Pallikarakis N., Jandrain B., Sphiris N., Pirnary F., Lacroix M., Scheen A.J. and Lefebvre P.J.: High oxidation rates of oral glucose and remarkable sparing of endogenous carbohydrates after priming glucose pools exercise in man. *American Journal of Applied Physiology*.
6. Sphiris N. and Kappas K.: A codified computer-based patient record. *Technology and Health Care*.

### **Presentations in International Conferences**

7. Sphiris N., and Pallikarakis N.: Exercise dependence of the influence of the bicarbonate pool on the estimated oxidation of an exogenous glucose load in man. *Proc. 5th Mediterranean Conference on Medical Physics and Biological Engineering* 308-309, Patras, GREECE, 1989.
8. Sphiris N., Tsekoura V. and Pallikarakis N.: A microcomputer-controlled testing device for indirect calorimetry measurements. *Proc. 1st European Conference on Biomedical Engineering* 56-57, Nice, FRANCE, 1991.
9. Sphiris N. and Pallikarakis N.: Bicarbonate pool kinetics in man at rest or during exercise. World Congress on Medical Physics and Biological Engineering, *Med. Biol. Comp.* 29 (Suppl. Part 2) 1096, Kyoto, JAPAN, 1991.
10. Sphiris N. and Pallikarakis N.: A microcomputer program to estimate the influence of the body bicarbonate pool in  $^{13}\text{CO}_2$  breath tests. *Proc. 6th Mediterranean Conference on Medical Physics and Biological Engineering* 1113-1116, Capri, ITALY, 1992.
11. Sphiris N. and Pallikarakis N.: A microcomputer program for quantitative breath test. *Proc. 2nd European Conference on Engineering and Medicine* 407-408, Stuttgart, GERMANY, 1993.
12. Costaridou L., Sphiris N., Panayiotakis G., Pitoura T. and Pallikarakis N.: A software training tool in radiographic image quality. *Proc. 2nd European Conference on Engineering and Medicine* 91-92, Stuttgart, GERMANY, 1993.
13. Sphiris N., Pierrakeas C., Likaki H. and Panayiotakis G.: Mammographic image processing and breast cancer size determination with



a simple algorithm. *Proc. of International Conference on Digital Signal Processing and II International Conference on Computer Application to Engineering Systems Part I*: 281-285, Nicosia, CYPRUS, 1993.

14. Malatara G., Sphiris N. and Kappas K.: Head Simulation of linear accelerators and spectra consideration using EGS4 Monte Carlo code in a PC, *Proc. 1st International Conference on Medical Physics and Biomedical Engineering*, Vol. 2: 468-73, Nicosia, CYPRUS, 1994.

15. Sphiris N., Pierrakeas C, Panayiotakis G., Kelekis N. and Kelekis D.: An Image processing software tool for quantification of atherosclerosis, *Proc. 1st International Conference on Medical Physics and Biomedical Engineering*, Vol. 2: 464-7, Nicosia , CYPRUS, 1994.

16. Costaridou L., Sphiris N., Pitoura T., Hatzis K., Panayiotakis G. and Pallikarakis N.: QUIRIS: Quality Instruction Radiographic Imaging System, *Proc. 12th International Congress of Medical Informatics*, p. 694, Lisboa, PORTUGAL, 1994.

17. Malatara G., Kappas K. and Sphiris N.: Head Simulation of linear accelerators saturn 25 and 41. Spectra consideration of energies 6,12,25,23 MeV using EGS4 monte carlo code, XVII International Conference on Medical Physics and Biological Engineering, *Physics in Medicine and Biology*, Vol. 39a, Part 2, p. 685, Rio de Janeiro, BRASIL, 1994.

18. Sphiris N., Kappas K., Tsokas K. and Gyftakis O.: A system for the management of codified medical data base in *MEDINFO '95 Proceedings*, R.A. Greenes et al. (eds), MEDINFO '95, Torondo, CANADA, 1995.

**More than 30 publications in Greek scientific journals and conferences.**