





## Vassilis Kilintzis


**Date of birth:** 18/02/1978

**Nationality:** Greek


### CONTACT

 EPON 12  
71409 Heraklion, Greece  
**(Home)**

 [billyk@ics.forth.gr](mailto:billyk@ics.forth.gr)

 (+30) 6947077831

 billyk182 **(Skype)**

 billyk18278 **(Google Hangouts)**

### WORK EXPERIENCE

**01/2023 – CURRENT** Heraklion, Greece

**Research Associate in IT/Health Research Projects** Computational BioMedicine Laboratory, Foundation for Research and Technology - Hellas

Participation with various roles in Research projects  
Technical document editor  
Information Systems Designer

**2004 – 09/2022** Thessaloniki, Greece

**Research Associate** Lab of Computing, Medical Informatics and Diagnostic Imaging Aristotle University

Participation with various roles in Research projects  
Work package leader and Technical management  
Research in medical informatics  
Teaching in post graduate program "Medical Informatics"  
Software developer  
Information Systems Designer  
Technical document editor

**2004 – CURRENT** Thessaloniki

**Research Associate** Lab of Research and Clinical Applications in Ophthalmology, A' Ophtha Dept. Aristotle University

- Research Associate
- Systems Administrator
- Information Systems Designer and Developer
- Clinical Research database management
- Statistical analysis
- IT Consultant

**2003 – 2004**

**Member of the user's support team** Network Operations Centre Aristotle Univ. Thessaloniki

**2012 – 2017**

**Research Associate in IT/Health Research Projects** Institute of Applied Biosciences CERTH

**2012 – 2018** Thessaloniki, Greece

**Information system design, development and support A' Anesthesiology Clinic AHEPA Hospital**

Design, development and of data management system to store and retrieve surgery related information and documents (i.e. anesthesiology diagram) for all surgeries with anesthesiologist of the A' anesthesiology clinic, participating. The system, based on Mysql/Php/Javascript/Jquery was developed in 2012 and it is still in operation.

## EDUCATION AND TRAINING

**1996 – 2001** Thessaloniki, Greece

**Bachelor degree in Physics - School of Science** Aristotle University of Thessaloniki

Grade 7.5/10

**Level in EQF** EQF level 6

**2002 – 23/07/2004** Thessaloniki, Greece

**Master's degree in Medical Informatics** Medical School - Aristotle University of Thessaloniki

Grade A

**Level in EQF** EQF level 7

**2006 – 2012** Thessaloniki, Greece

**Certificate of Doctorate in Medical Sciences** Aristotle University

Grade A

Title: "**Processing, Semantic Representation and Management of Medical Data from Glaucomatous Patients**"

The first chapter of this thesis assesses the special features of the management of medical data from glaucomatous patients. An information system was introduced for the management of clinical trial data in the glaucoma domain fulfilling additional requirements that are presented by multi-centric studies in the same domain. The presented system has distinct layer architecture it is user friendly, easy to maintain and secure in storing and exchanging data. Main features of the system are the reusable database schema that enables the use of the same database schema to store data from different studies and also the dual role of the database which is designed to store not only the study data but also the contents of the empty data collection form. The latter makes changes in the data collection form easy to apply without the need of modifications in the system's application.

The second chapter of this thesis explores new features of the optic nerve head morphology using the Heidelberg Retina Tomograph (HRT) also assesses their discriminating power between glaucomatous patients and normal subjects. For the first time the contour of the 2-D surface of the optic cup was examined regarding its shape. HRT reports, exported as TIFF images, from 97 Normal subjects and 97 Primary Open Angle Glaucoma (POAG) patients were used. For each image the contour of the dominant region of the optic disc cupping surface (dROCS) was transformed into a data-series by calculating the distance of each contour pixel from the centroid. The standard deviation of contour (SDC), the dROCS area divided by the Disk Area in pixels along with the standard deviation of the partial differential of the timeseries of the distances of the contour points from the centroid(SDdJ) were assessed as the novel parameters with the higher combined discrimination power with 82.5% correct classification.

The last chapter presents the attempt of the semantic representation of the glaucomatous patients' data via semi-automatic mapping of the glaucoma domain terms described in EGS GlaucoGENE to standard terminologies LOINC, MeSH and SNOMED CT. The semi-automatic mapping was performed in two stages once using the original text of the data collection form and again with improved text to increase matching possibility the results were 24% and 82% of the terms mapped correspondingly. Using the semantic mapping of the terms from the previous step an additional module was created in the information system in order to export the subject data in a semantically enriched newly defined XML format. This attempt pointed out the difficulties that arise in the mapping of data collection form terms to standard terminologies without taking into account the terminologies while designing the data collection forms.

**Field of study** Medical Informatics | **Level in EQF** EQF level 8

**06/09/2004 – 13/09/2005**

**Military Training** Hellenic Army

Mandatory Military service completed

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Greek

**Other language(s):**

**English**

**Listening** C1

**Reading** B2

**Writing** B2

**Spoken production** B2

**Spoken interaction** C1

## French

**Listening** A2

**Reading** B1

**Writing** A2

**Spoken production** A2

**Spoken interaction** A2

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Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## DIGITAL SKILLS

Information Systems Design | Data and Knowledge Engineering | CSS | Android Development(Android Studio, Java) | Git | Programming (at least 4K lines more than 2 projects) in C#, Java, PHP, Javascript, Python, Pascal | Docker | Unity3D

## ADDITIONAL INFORMATION

### Publications

#### Publications

Google Scholar: Profile [Link](#)

Elsevier Scopus: Profile [Link](#)

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### Organisational skills

#### Organisational skills

- Mentoring

Throughout the years I have been mentoring several junior developer and master's graduate students in order to acquire the required coding and collaboration skills to support the development needs of the Lab of medical informatics.

- Project management

Good expertise on using [Microsoft Project](#). Experience gained by using MS Project to organize and plan small projects (managing task scheduling and human resources for up to 10 people)

- Software development management

Experienced with several software development methods, mainly Waterfall, Sashimi and Agile.

Experienced the use of [GitLab](#) and Constant Integration/Deployment procedures to manage the development of collaborative software, experience gained via the technical management of internal as well as multi partner projects.

### Communication and interpersonal skills

**Communication and interpersonal skills** Excellent communication skills gained through several years of collaboration with people of diverse national origin in the context of several collaborative european research projects that i have participated.

### Job-related skills

#### Job-related skills

- Inventing Technical solutions
  - Debugging software
  - Designing information systems
  - Knowledge engineering
  - Curating Medical Databases
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### Other skills

#### Other skills

##### Teaching experience

- 2006-2018 Lecturer in "Programming techniques in Information systems", specifically lectures on web programming and database management, post graduate program of Medical Informatics, Medical School A.U.Th.
- 2003-2013 Telemedicine tutor at the public Institute of Vocational Training "IEK EKAB" Thessaloniki
- 2006-2012 Laboratory Associate for the lesson "Lab of Dental/Medical Informatics", Medical School A.U.Th.
- 2009 Seminars for Highschool Computer Teachers, New programming developing environments, Image processing basics, Sound processing basics, University of Macedonia Thessaloniki.
- 2003 Laboratory Associate "Lab of Digital Signal Processing, Computer Networks", Technological Educational Institute of Thessaloniki School of Electronics
- 2002 Teacher in Ms Office, Visual Basic ,ECDL seminars at private institute of vocational training "Interactive Learning"