

# Dr. George Violettas

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## Professional profile

Dr. George Violettas ([academic webpage](#)) holds a Ph.D. in the Internet of Things & security in such networks, and a M.Sc. in Applied Informatics from the University of Macedonia in Greece. He further holds a 4-years B.Sc. in Computer Science from the Hellenic (Greek) Open University. He is a senior research fellow for [four Horizon 2020 European projects](#). He worked for more than 15 years in the ICT industry as a CIO, R&D Officer, Project Manager, Software Engineer, and ICT Consultant for European Companies. He has been delivering courses for more than 15 years in Universities, Vocational Institutes & Colleges. Today he is a lecturer with [Alfaisal University](#) in Riyadh, Saudi Arabia. He has been the Head of the ICT Department and a senior lecturer for [Lincoln College Group](#), an adjunct lecturer for business courses on a Master's level, and an ICT Security consultant all over the Gulf. His scientific interests are focused in the areas of IoT devices and Wireless Sensor Networks (WSN) in Software-Defined Networks (SDN), and in IoT security & cryptography over Cloud infrastructure, where he has several [scientific publications](#).

## Career summary

- 2020 - IoT LECTURER**  
[Alfaisal University](#), Riyadh, Saudi Arabia
- Lecturer in IoT, Cybersecurity, Mobile Programming
- 2017 - 2020 Head of Department (ICT), Senior LECTURER**  
[Lincoln College Group](#) in Applied Engineering College (Former TTC), Saudi Arabia
- Head of ICT Department (14 faculty), Curriculum development, Strategy formulation, Senior Lecturer
- 2016 - 2017 Deputy Head of Department (ICT), Senior LECTURER, Head of IoT LAB**  
[Lincoln College Group](#) in Applied Engineering College (Former TTC), Saudi Arabia
- Deputy Head of Department ICT (All administrative tasks), Senior Lecturer (delivering ICT courses, supervising Bachelor Theses, delivering curricula)
  - Head of Embedded Systems Lab (ESL)
- 2016 - 2018 Invited LECTURER**  
[Geneva Business School](#), Gulf Countries (GCC)
- Lectures on Project/Operation Management, Master Thesis & Supervision for Master on Business Administration (MBA)
- 2012 - 2016 SENIOR LECTURER, HEAD OF EMBEDDED SYSTEMS\IoT LAB**  
[GIZ](#), in Technical Trainers College (TTC), Saudi Arabia
- Compiling and delivering lectures to College/University students on computer science, PHP, MySQL, CSS, Android, Information Security
  - Head of Embedded Systems Lab (ESL, [www.esl.tcollege.edu.sa](http://www.esl.tcollege.edu.sa))
  - Head of Blended Learning Group
- 2013 - 2018 INFORMATION SECURITY CONSULTANT**  
[Obrela Security Industries](#), Greece
- Acting as an external Security consultant in Gulf-wide projects, including penetration testing, risk managements & analysis, threat modelling and security advising in several institutions in the Gulf.
- 2010 - 2012 ICT SENIOR CONSULTANT**  
[Apogee Information Systems](#), Spain
- Acting as a Security and Cryptography consultant for SharePoint code and penetration testing especially in web applications
- Key Achievements**
- 2-year project with a budget of 180,000EUR, acting as a MOSS expert and software analyst involving MS SharePoint development with SQL
  - Android Project for a new social network (music oriented), XML and database programming with MySQL Lite
- 2007 - 2012 ASSOCIATE LECTURER**  
[A.T.E.I. of Thessaloniki](#), Greece
- Compiling and delivering lectures to students on Informatics, HTML, PHP, MySQL, CSS, Java threads, wireless security and C++ projects.
  - Supervising Undergraduate Theses
- Key Achievements**

- Fully cryptographic platform to enable the secure exchange of students' grades with the Institution's main database located remotely

## 2003 - 2009 CIO, LARGE ACCOUNTS MANAGER

**"Epikinonia" LTD, Greece**

- Manager, Large Account Manager, B2B support, MOSS Project Manager, HR
- As a Project Manager I successfully delivered more than ten projects of a total cost more than 2.5m euros

## Key Projects

<b>European Researcher, Software Engineer</b>	<a href="#">Fed4Fire</a> , <a href="#">iMinds FP7 European project</a> : .5y experiment on SDN networks. R&D, PhD research (2016), <a href="#">MONROE</a> Multi-homing with Ephemeral Clouds on the Move, 1y experiment, PhD Research, (2017), <a href="#">NECOS</a> , Lightweight Slice Defined Cloud Solutions, (2018) Research proposal preparation, Algorithms created in Python, C Lang, Node-Red and Ansible used for frond-end GUI. Networking experiments conducted in Linux Distributions. SDN frond-end console constructed (CORAL). Communication protocols (RPL) analysis.
<b>Head of the IoT Lab</b>	Student Projects, Connections with the Industry, Applied Project Delivery, Major Industry Involvement (Intel), Transformation of the Lab to an autonomous department
<b>Security Consultant</b>	Major Financial Institutes: Penetration Testing, Source Code Review, Software Security Consultancy, SDLC Delivery
<b>IT Project Manager</b>	Greek Government: <i>Total Warning Fire Prevention System</i> : project planning and installation of fully autonomous cameras on 4 mountain peaks and signal transfer through Wi-Max up to 15km to base station with surveillance room installation (1m euros).
<b>Software Engineer</b>	<i>ASSET</i> , Intrusion Detection System for IoT (Python, C, Java) <a href="https://github.com/SWNRG/ASSET">https://github.com/SWNRG/ASSET</a>
<b>General Project Manager</b>	Complete Wireless Coverage System and Area Surveillance with Wi-Fi & IP Cameras of <a href="#">Thessaloniki Port Container Area</a> (2.5m euros). Business Processes, Risk Assessment.

## Education and qualifications

<b>PhD</b>	Next-generation Network Control and Security for the Internet of Things, <i>Summa cum Laude</i> , March 2021 <b>Dissertation:</b> <i>Fully functional IoT security platform (<a href="#">ASSET</a>)</i>
<b>MSc</b>	Applied Informatics (Grade 9,6/10, top 10%), 2008 <b>Thesis:</b> <i>Creating a fully functioning software platform (in C#) dealing with Positioning Finding through Wi-Fi networks and mapping of Wi-Fi coverage (<b>Best paper award</b>)</i>
<b>BSc</b>	Computer Science (Grade 8,02/10, top 20%), 2006, <i>Hellenic Open University (EAP)</i>
<b>Michigan ECPE</b>	Certificate of Proficiency in English, 2007

## Key I.T. skills

IoT, WSN, Information Security, Cryptography, MQTT, CoAP, YAML, JSON, Ansible, Node-red, XML, Docker, Virtualization, Windows Family & Server(s), Assembly, (Visual) C(++),(#), Java, Python, HTML, GWT, IIS, JavaScript, Maven, git(hub), (my)SQL, UML, Rational Rose, Exchange Server, Microsoft SharePoint, Android Programming, Linux.

## Personal details

<b>Languages:</b>	Fluent English and Greek, intermediate Italian and basic Spanish & French
<b>Driving Licence:</b>	Full/clean licence for Europe and Gulf countries
<b>Other Details:</b>	IQAMA holder (Saudi Arabia)

## Interests and activities

**Currently include:** Home Cinema, Basketball, Boat Fishing, Snorkelling and Underwater Photography

## Publications

- [https://www.researchgate.net/profile/George\\_Violettas3/publications](https://www.researchgate.net/profile/George_Violettas3/publications)
- <https://alfaisal.academia.edu/GeorgeViolettas>

References are available upon request