



# Dimitrios P. BOURAS

IoT/ICT Expert

## Introduction

My background is in electrical engineering, with more than two decades of industrial experience. In recent years my focus has been on distributed edge Cloud technologies for digital automation and I am currently with ZeroNorth A/S, a leader in the green transition of global trade. Past positions include Managing Director & Head of Engineering at METIS Cybertechnology (a managed IoT and Cloud platform provider for monitoring, intelligent analytics and ML-driven optimization for the Maritime Industry), Software Development Manager at EnerSys Americas (formerly Alpha Technologies Ltd.), Chief Architect and acting VP Engineering at mimik Technology, Electrical Supervisor at Thenamaris (a top-tier ships-management company), Principal Engineer at Atmel (now part of Microchip Technology), System Engineering Lead at Theta Microelectronics (RFIC IP and design services) and research engineer at Ericsson. Also as an FP6, FP7 and Horizon 2020 expert evaluator and reviewer with the European Commission, in Information, Communication and IoT Technologies, I have co-monitored execution of fourteen R&D projects, with budgets totaling in excess of 75M EUR and typical life-cycles of 2-4 years each. I hold postgraduate degrees in Digital Telecommunications, Electrical Engineering, from the University of British Columbia, Vancouver, Canada.

## CONTACT INFO

+1 (604) 721-5160  
dimitrios.bouras@gmail.com  
<http://www.dbouras.net>  
<http://www.linkedin.com/in/dbouras>

## Employment experience

### Vessel IoT Lead Architect (Remote)

Apr 2023 – present

#### ZeroNorth A/S

Responsible for delivering the end-to-end architecture of the IoT solution, feeding Digital Twin-based and Big Data-driven monitoring, analysis, and optimization of vessel performance. Synthesizing requirements, defining specifications, guiding technical work on software and systems integration, and also working closely with product, commercial and IT teams for developing and evolving the IoT vision according to business value and need.

### Managing Director (Canada), Head of Engineering (Remote) Aug 2019 – Feb 2023

#### METIS Cybertechnology Inc.

Leading Edge Computing, overseeing IoT & Cloud Engineering teams and platform development (Remote), with application to digital automation, monitoring and operational optimization for the global Maritime Industry. Building up service and support capacity by growing operations in Vancouver (Canada), while also developing leads for new customers across North America. As a senior member of the management team, I contributed actively in shaping company strategy for scaling our offering and establishing a global brand.

### Software Development Manager

Jun 2017 – Jul 2019

#### EnerSys Energy Systems Americas (formerly Alpha Technologies Ltd.)

Defining the strategy and leading teams developing software and embedded firmware for modules, intelligent system controllers and IoT components for industrial power solutions. Working with customers, product managers and sales for developing product road-maps. Reporting to the VP Telecom Technology and advising on “build, buy, partner and avoid” decisions. Collaborating with EnerSys business units worldwide, with program managers, engineers, technologists, supply chain, manufacturing and technical support.

### Chief Architect / acting VP Engineering

May 2015 – Apr 2017

#### mimik Technology Inc.

Leading an agile engineering team in a pre-revenue startup environment, providing architectural direction and coordinating implementation plans for an edge-computing micro-service based cloud platform. Since joining I was instrumental in revamping software development life-cycle management tools and processes, contributing to the transformation of an R&D culture into a product and market driven one. As a senior member of the management team, I regularly communicated company technology strategy to employees, partners, customers and investors.

### Electrical Eng. Supervisor

Dec 2010 – Mar 2015

#### Thenamaris Ships Management Inc.

Developing and leading the electrical engineering group within the Technical Department. The group supports superintendent engineers, fleet electricians (in the order of one hundred individuals) and the new-buildings team in all things related to electronic automation, on-board ICT, telecommunications, radio navigation and telemetry for energy optimization. Responsible for overseeing maintenance as well as planning, management and tracking of related development and infrastructure projects with average annual budgets of 1-2M USD.



## Employment Experience (cont.)

**Independent Expert (Evaluator, Reviewer) Nov 2003 – Feb 2020**

**European Commission, DG INFSO & DG Connect**

Serving the European Commission, in the Information, Communication and IoT Technologies area. Roles included evaluator and rapporteur during selection of projects for funding, as well as project reviewer for monitoring execution of funded projects, under the EU 6th, 7th Framework (FP6, FP7) and Horizon 2020 R&D Programs. Over the course of nearly twelve years, I took part in a total of 10 week-long evaluation sessions and co-monitored successful execution of 14 projects with budgets totaling in excess of 75M EUR and typical life-cycles of 2-4 years each.

**Manager, Systems & Applications Sep 2006 – Jul 2010**

**Theta Microelectronics Inc.**

Leading the Systems & Applications Group that served as interface between customer technical requirements, specifications, established or emerging standards and internal R&D / implementation effort, guiding design decisions based on capabilities and trade-offs. Successfully executed projects: RFICs for broadband wireless (MIMO) distribution of HDTV signals in the home; fully integrated RFIC transceivers for microwave back-haul networks. Also served as company interface to our customers, managing interaction and chairing review meetings.

**Principal System Engineer Oct 1998 – Aug 2006**

**Atmel Corp. (now part of Microchip Technology Inc.)**

Managing the digital signal processing team, designing and implementing ASIC hardware as well as developing firmware for telecom systems. Designing and implementing means of assessing quality of team output. Major project engagements were in state of the art wireless technologies such as WiFi (IEEE-802.11a/b/g wireless LAN), WiMax (IEEE-802.16 wireless MAN) and Bluetooth (IEEE-802.15 wireless PAN), both as senior design engineer and as group manager.

## LANGUAGES

### ENGLISH

Native / bilingual proficiency

### GREEK

Native / bilingual proficiency

### FRENCH

Limited working proficiency

## INTERESTS

### Wireless Technology

Transceivers, antennas, analog and digital systems. Amateur radio qualifications: Basic, Advanced, Morse code (call-signs VE7HDB / SV0XCB).

### Computer Software / Hardware

Involvement with computing and networking reaches back to the early 90's and the infancy of the Internet and the World Wide Web. Experimentation with operating systems spans more than three decades, starting with Exec 8 on a Sperry Univac 1100 series mainframe and Unix on a Perkin Elmer 3200 series minicomputer. Contributing code and advocating software and Internet freedom for over twenty five years, as an earnest supporter of the Open Source movement since its inception.

### Outdoors

Hiking, Skiing (down-hill & water), Sailing, Biking.

### Music

Classical & electric guitar; five years of conservatory studies between ages 5-10.

## Education, Prof. Associations

**Ph.D. Electrical Eng. – Telecommunications 1991 – 1995**

**The University of British Columbia, Vancouver, Canada**

Thesis Title: "Advanced Noncoherent Receivers for Mobile Fading Channels" (2 years Research Assistantship, 2 years University Graduate Fellowship). Recipient of a UBC University Graduate Fellowship (1993-1995). University-wide "Best Ph.D. Thesis" nomination for the Natural Sciences and Engineering Research Council of Canada (NSERC) award for 1995.

**M.A.Sc. Electrical Eng. – Telecommunications 1989 – 1991**

**The University of British Columbia, Vancouver, Canada**

Thesis Title: "Optimal Decoding of PSK and QAM Signals in Frequency Nonselective Fading Channels" (1.5 years Research Assistantship).

**Diploma Electrical Eng. 1983 – 1989**

**University of Patras, Patras, Greece**

Five-year study including thesis, specialization field: telecommunications.

**Institute of Electrical & Electronics Engineers (IEEE) 1989 – present**

Member, Technical Program Committee member (VTC, WRECOM).

## Volunteering & Causes

**UBC Amateur Radio Society 1991 – 1995**

**Member, President, Alumni member**

The society is a non-profit student organization governed by UBC's Alma Mater Society, with a mission to promote Amateur Radio as a hobby to students, faculty, staff and the community. During the years of my involvement we greatly increased student membership, successfully completed ambitious infrastructure projects and published two preparatory course books (of which I am a co-author) on obtaining an Amateur Radio Operator certificate.

### Organizations

**Electronic Frontier Foundation, Member 2020 – present**

**Free Software Foundation, Associate Member 2006 – present**

**Vancouver Maritime Centre for Climate, Member 2021 – present**

**The Planetary Society, Member 1992 – present**

**Canadian Red Cross**