



Sotirios Ntouskas

Curriculum Vitae

Education

- 2014–2021 **PhD**, *National Technical University of Athens*, School of Chemical Engineering, .
Development of advanced Model Predictive Control Methodologies towards Optimized Drug Administration Policies
- 2009–2011 **M.Sc. Automation Systems**, *National Technical University of Athens*, Interdepartmental Program of Postgraduate Studies in Automation Systems, *GPA – 8.5*.
- 2002–2009 **Dipl. Mechanical Engineer**, *National Technical University of Athens*, .
School of Mechanical Engineering

Work Experience

- 2019–present **Research Engineer**, NCSR DEMOKRITOS, Institute of Nanoscience and Nanotechnology, Athens.
Development of medical device (Point-of-Care) for Rapid Diagnosis of Microbial Infections.
- 2016–2018 **Software Engineer**, TELETEL S.A., Athens,
Development of on-board software for space missions..
Development of testing software for telecommunication protocols for aerospace industry
- 2015–2016 **Back-End Developer**, ADVANTIS MEDICAL IMAGING SOFTWARE, Athens.
- 2014–2015 **Research Engineer**, NTUA – SCHOOL OF CHEMICAL ENGINEERING – UNIT OF PROCESS CONTROL & INFORMATICS, Athens.
Detailed achievements:
- Development of Web Application for Determining Optimal & Individualized Drug Administration Strategies.
 - Development of Model Predictive Control Methods for Fractional Physiologically Based Pharmacokinetic Models.
- 2013–2016 **Freelancer**, Athens.
- 2012–2013 **Technical Project Trainee**, NESTLÉ, Inofyta Factory.
Mainly involved with Safety, Health & Environmental Projects.

Academic skills

Automation Systems, Embedded Systems, Classical Control, Model Predictive Control, Machine Learning, Optimization, Dynamic Programming, Kalman Filters, Markov Models, Stochastic Control, Optimal Control, Robotics, Artificial Intelligence

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📄 sotdousk.github.io

Computer skills

- Advanced Python, C, Matlab/Simulink, TCL, Back-end Development with Python (Django, Jinja2)
Operating Systems: MacOS, Linux, Windows,
CAD software: Solidworks,
Office, L^AT_EX,
Versioning tools: Git, GitHub, Bitbucket, SVN
CAD: FreeCad, Solidworks
EDA: KiCad
- Intermediate HTML, CSS, Javascript
- Basic C++, JAVA, MYSQL, ROS
CAD/EDA: Autocad, Rhino, Eagle, Fritzing

Technical Skills

Implementation of Embedded Systems Projects with PIC (Microchip) micro-controllers, Raspberry Pi, Arduino, BeagleBone and others

Very good knowledge of electronics, motors, sensors, communication protocols of embedded systems (RS-232, SPI, I2C etc), LCD screens, tuning of controllers, wireless sensors networks (RF, ZigBee, GSM)

Automatic Control, Systems Modeling in many programming environments

Certification in Environmental Management Systems (ISO 14001:2004) & Occupational Health and Safety Management Systems (OHSAS 18001:2007) by Bureau Veritas

Communication & Social Skills

- 2015
- Presentation in Med 2015 Conference on Control and Automation, Torremolinos-Malaga, Spain, June 16-19 2015.
 - Oral Presentation at Hellenic Conference of Chemical Engineering.
- 2014 Member of Lab of Process Control and Informatics, School of Chemical Engineering NTUA, under the guidance of professor H.Sarimveis
- 2010 Member of Control Systems Lab, School of Mechanical Engineering NTUA, under the guidance of professor E.Papadopoulos
- 2009 Member of Technical Chamber of Greece
- Very often member of various sports teams
 - In the past member of various music bands

Languages

- Greek **Mothertongue**
English **Proficient User**

Cambridge FCE

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German **Basic user**
French **Independent user**

Goethe Zertifikat B1
Delf A1-A2-A3-A4

Interests

- Sports
- Music - Drums

Additional Informations

- Portfolio [Web - Platform](#) for Determining Optimal Drug Dosing with Pharmacokinetic Models and Model Predictive Control
- Publications List of publications [here](#)
- Media Presentation in TV show Escape (ET-1 channel), of the project I've worked during my Master Thesis (5/8/2011), - [Video](#)
[Article](#) in the newspaper 'Ελευθεροτυπία' dedicated to the project I've worked during my Master Thesis
- On-line lessons *Machine Learning by Stanford University*
Introduction to Linux
Autonomous Navigation for Flying Robots

Annexes

References supplied on request.

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