Odysseas Moschopoulos

Personal Information
Nationality: Greek
Date of Birth: 31/01/1994

Contact Information
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Education

University

Diploma in Mechanical Engineering (5-year engineering degree, equivalent to a Bachelor of Science + Master of Science, 300 ECTS credit hours), **Department of Mechanical Engineering, School of Engineering, University of Thessaly**.

Expected degree grade: **8.42/10**

Area of specialization: Production Organization and Industrial Management
Average grade in the compulsory and elective courses of the specialization track (13 courses): **9.12/10**

Selected projects & courses:

- Vehicle Routing Optimization for a recycling company: A large scale, Periodic Capacitated Vehicle Routing Problem was modeled and solved for a recycling company operating in Athens. The application was developed in C++ programming language and the IBM ILOG CPLEX was embedded. Team project. Course: *Operations Research Applications*
- Crew Scheduling Optimization in the airline industry: A large scale, Crew Scheduling Problem was modeled and solved for an airline firm. The goal was to assign flight routes to flight crew members. The application was developed in C programming language and the IBM ILOG CPLEX was embedded. Team project. Course: *Scheduling-Project Management*
- Simulation of a production system: A production line, in which lean manufacturing techniques were implemented (kanban scheduling system) was simulated in Arena (simulation software) and key performance indexes of the system were investigated.
  Course: *Simulation in Industrial Production*
- Financial analysis of a local company: The financial statement of a local company was analyzed with the utilization of financial ratios and the financial condition of the company was assessed.
  Course: *Business Economics*
- Business Plan development: A business idea was conceived and the subsequent business plan was developed and presented under the title: "ChillBlend: A network of vending machines offering fresh fruit salads to tourists and locals". Team project. Course: *Introduction to Entrepreneurship*

Thesis project:

 "Set-cover versus set-partition column generation based solution methodologies for optimal aircrew scheduling"

We consider the problem of optimal crew scheduling in the context of airline management. Using computer code implementations of two alternative algorithmic designs (a traditional set-partition and a novel set-covering approach) we perform a comparative evaluation of their computational behavior and we investigate under which conditions each of the two exhibits superior performance.

Extra Curricular Activities

University

Formula Student: *Centaurus Racing Team*

- **Season 2013-2014:** Member of the Chassis sub-team. *Technical responsibilities*: Car safety and driver's protection, Manufacturing Processes. *Participation in competition*: FS Hungary (21st – 24th AUG. 2014)
- **Season 2014-2015:** Member of the Engine-Powertrain sub-team. *Technical responsibilities*: Engine modeling and simulation (Ricardo WAVE software), Design and Simulation of car's intake manifold (Solidworks, Ansys simulation software). *Administrative responsibilities*: Recruitment of new members, Team Promotion (Presentations, Interview at a local TV station)

High School

4th General Junior High School (2006 - 2009) and 4th General High School of Veria (2009 - 2012)

- **Season 2008-2009:** Member of the school's Environmental Team
- **Season 2010-2011**: Member of the school's Debate Team, Journalism Project
- **From season 2008-2009 to season 2011-2012:** President of the class board

Work Experience

Spyrides Group of Companies-Petrotek Makedonias SA (July-August 2016, Thessaloniki, Greece)

(http://www.spyrides.gr/en/)

Position: *Junior Manager*

- Project Management: Scheduling and Management of "AVIN : Unleaded Best 95" project, concerning the replacement of product signs at fuel stations in Northern Greece for the promotion of a new product, on behalf of Petrotek Makedonias SA
- Human Resource Management: Briefing and Assignment of daily tasks to technicians

Computer Literacy

Applications	Ms Office
Programming	C/ C++, Fortran, Matlab, Mathematica
Simulation	Arena Simulation, Matlab Simulink, Ricardo WAVE, Ansys
Optimization	CPLEX Optimization Studio
Design	SolidWorks, AutoCad

Languages

English : Academic IELTS, British Council (Nov.2017), Overall score: 8/9
German: Goethe-Zertifikat B1, Goethe Institute (2008)
Greek: Native Language

Hobbies

- **Long-Distance running** : Half-Marathon (21.1 km) , Personal Best : 01:50:36
- **Hiking**