Themistoklis Melissaris   Curriculum Vitae

Wärtsilä Netherlands B.V.
Department of Hydrodynamics
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Education

Oct. 2015-present	Early Stage Researcher at Wärtsilä Netherlands B.V., Drunen, Netherlands and TU Delft, Netherlands PhD in Hydrodynamics (Marie Curie Fellowship), Research Interests: Cavitation and Surface Erosion on Marine Propellers Advisor: Norbert Bulten, Ph.D., Product Performance Manager, Wärtsilä Netherlands B.V. Advisor: Petra Stoltenkamp, Ph.D., Manager Hydrodynamics, Wärtsilä Netherlands B.V. Advisor Professor: Professor T.J.C. van Terwisga, TU Delft
Oct. 2010-Sep. 2015	National Technical University of Athens (N.T.U.A.), Greece 5-year BEng & MEng (Engineering Diploma) in Naval Architecture & Marine Engineering GPA: 8.46/10.00 Thesis Title: "*Coupled Hydrodynamic Analysis of Floating W/T using Exact and Approximate Methodologies*" Advisor: Professor Spyridon A. Mavrakos.

Professional Experience

Oct. 2015-present	Jr. Expert Hydrodynamics at Wärtsilä Netherlands B.V., Drunen, Netherlands Hydrodynamic analysis, design and optimization of propulsion systems using CFD
Mar. 2015-Jul. 2015	Wärtsilä Netherlands B.V., Drunen, Netherlands Internship on R&D Validation & Industrialization, Data Analysis using high-level programming language (Python) Expanded existing script to calculate Principal stresses and Von Mises stresses from data received from Wärtsilä Test Rig measurements (strain gauges).

Awards

Jun. 2011	First prize in homework project competition in Electroscience by the Institute of Marine Engineering, Science & Technology (IMAREST)
Mar. 2015 Dec. 2015	Erasmus+ scholarship for internship via student's exchange programme Undergraduate prize offered to the top three students with the three highest final grades who graduated in 2015 (3rd place). Awarded by Limmat Stiftung, non-profit swiss foundation
Nov. 2018	First Prize in Shipathon 'Shake the Ship' 2018 by taking up the challenge by the Ministry of Infrastructure and Water Management and Rijkswaterstaat (Challenge 1) on getting 'Westerschelde' ready for the future of smart and autonomous shipping.

Technical Skills

- **Programming**: Very good knowledge of Matlab and Fortran, working knowledge of Python
- **Design**: Very good knowledge of AUTOCAD, INVENTOR 3D CAD and AVEVA MARINE, working knowledge of RHINOCEROS 5.0
- **CFD:** Star-CCM+
- **Operating Systems**: Linux, Windows

Languages

English (Fluent), German (Intermediate), Dutch (Elementary), Greek (Native)

- **Conferences and Workshops:**
    - CAV2015, December 2015, Lausanne, Switzerland
    - Numerical Towing Tank Symposium (NuTTS), October 2016, Il d'Oléron, France
    - 4th Cavitation Workshop, May 2016, Chania, Greece
    - Lloyd's Register - Workshop on ship scale hydrodynamic computer simulation, November 2016, Southampton, UK
    - VII International Conference on Computational Methods in Marine Engineering (MARINE), May 2017, Nantes, France
    - 5th Cavitation Workshop, June 2017, Chania, Greece
    - Numerical Towing Tank Symposium (NuTTS), October 2017, Wageningen, the Netherlands
    - CAV2018, May 2018, Baltimore, USA
- **Interests:** Basketball (10-year amateur occupation), Football, Kick Boxing, Video Games