

Dimitra-Eirini Diamantidou

WORK EXPERIENCE

Graduate Researcher 9/2019 – Present
Mälardalen University (MDU), Sweden

- Numerical simulations of boundary layer ingesting electrical propulsors
- Novel aircraft conceptual design employing multi-disciplinary design approach
- Responsible for the integration of the propulsion system - gas turbine engines, electrical power and thermal management system - with airframe aspects for system-level assessment
- Design space exploration and optimization studies related to optimal hybridization strategy
- Development of surrogate models by employing machine learning algorithms for robust engine design

Internship 2/2019 – 08/2019
ABB Corporate Research Center, Sweden





- Numerical analysis of high voltage components to investigate thermal performance
- Development of reduced order models using machine learning techniques to predict the thermal loading of components

Suspension Team Leader 9/2014 – 09/2016
Aristotle Racing Team, Formula Student

- Responsible for design technical reports required by Formula Student competitions
- Design and construction of suspension components and aerodynamic package using composite materials; responsible for suspension set-up during the testing period
- Responsible for car assembly including different disciplines; parametric CAD geometry for suspension kinetic analysis
- Distinctions: Formula Student Hungary 2016 9th/40 teams overall, 3rd/20 combustion teams, 2nd in Cost, Manufacturing and, Sustainability event (award)

EDUCATION

2013 – 2019 **Mechanical Engineering**
5 YEAR DIPLOMA
Aristotle University of Thessaloniki, Greece

 Fyrtornsgatan 7A, 72210, Västerås
 +46 0762131822
 diamantidoude@gmail.com
 LinkedIn page

COMPUTER SKILLS

PROGRAMMING	Python, Bash, Fortran, Matlab
SOFTWARE	OpenFOAM, ANSA, Ansys Fluent
CAD	Creo Parametric, Solidworks, Autodesk Inventor
OS	Ubuntu, Mac, Windows 10

ACHIEVEMENTS

2022 **Vice-chair of Student Advisory Committee**
American Society of Mechanical Engineers (ASME) Turbo Expo 2022

2021 **Student travel award**
Participation in ASME Turbo Expo 2021

COMMUNICATION SKILLS

GREEK	Native
ENGLISH	Fluent
SWEDISH	Beginner

EXTRA CURRICULAR ACTIVITIES

2021 **MDU Doctoral Council Member**
Representative at Subcommittee of Economy and FEC Research Council

2022 **NUMAP-FOAM winter school**
OpenFoam development 2-week winter school, Zagreb, Croatia

2022 **Triathlon**

2019 **Portrait photographer**

2013 **Music composition**