

# Christos P. Nasoulis

*MEng Mechanical Engineer / A.U.TH.*

Date of Birth: 11-04-1996

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## Personal Profile

MEng Mechanical Engineer with 2 years of experience in an Electric Formula Student Team, specializing in external Aerodynamics and Computer Aided Engineering (CAE). Developed skills in both Computational Fluid Dynamics and Structural Analyses. Hard working person, with passion for engineering and programming.

## Experience

Researcher at HECARRUS Project

European Union, Horizon 2020, Research and Innovation Programme “Clean Sky 2”

*July 2020 – present*

Key Responsibilities:

- Preliminary aircraft sizing and weight estimation
- Process automation for geometry creation
- Components’ positioning and optimization
- Stability and control evaluation

BETA CAE Systems SA, Kato Scholari, Thessaloniki, GR-57500, Epanomi

Intern at Customer Service Department

*April 2019-December 2019*

Key Responsibilities:

- Responsible for creating and video recording Short Demo files for various use cases in ANSA
- Focused on Connections, Solver entities, Morphing and ANSA’s most used tools

Achievements and Value added:

- Created a useful database for internal and public use
- Got familiar with variety of tools, functions and modeling techniques in ANSA

Aristotle University Racing Team Electric-ARIST.U.R.T.LE

Chief Engineer | Aerodynamics and FEA Departments

*September 2016 – October 2017*

Key Responsibilities:

- Responsible for designing and optimizing both Front and Rear Wings of the racecar
- In charge of conducting and supervising CFD and Structural Analyses
- Supervising the manufacturing process of the composite aerodynamic package
- Crash Safety data analysis of the Accumulator Container and Impact Attenuator
- Mold Design and Manufacturing
- Team member training

Achievements and Value added:

- Improved racecar’s performance and contributed in weight reduction
- Assured the safety of the design through Structural Equivalency Spread Sheet and Impact Attenuator Data Report
- Developed excellent troubleshooting and project managing skills
- Successfully prepared new team members to join the team

Aristotle University Racing Team Electric-ARIST.U.R.T.LE

Engineer | Aerodynamics Department

*May 2015 – September 2016*

Key Responsibilities:

- Design and manufacturing of the full aerodynamic package
- Conducted CFD Analyses and a full engineering report

Achievements and Value added:

- Created the foundation for the team's knowledge about aerodynamics
- Developed the first aerodynamic kit of the team
- Hand lay-up polymer manufacturing skills achieved
- Learned about mold design and manufacturing at local carpenter industry

**Education**

Aristotle University of Thessaloniki-A.U.TH.

Ph.D. Candidate

*September 2020 – present*

Thesis Title “Multidisciplinary parametrization and optimization of novel aircraft and propulsion system architectures”

Aristotle University of Thessaloniki-A.U.TH.

Master in Mechanical Engineering | Grade: 8.43/10, 312 ECTS

*September 2014 – July 2020*

Thesis Title “Conceptual design and components’ structural optimization for a 19-PAX hybrid-electric aircraft”

**Certifications**

- ANSA and μETA basics for CFD, December 2016
- ANSA and μETA basics for Structural, November 2015
- Certificate of Proficiency in English, November 2011

**Awards and Honors**

- For winning 3<sup>rd</sup> place in Business Plan Presentation with ARIST.U.R.T.LE in FS ITALY, January 2018
- For being in the 5 finalists in Business Plan Presentation with ARIST.U.R.T.LE in FS HUNGARY, January 2017
- Volunteer work at 90<sup>th</sup> Anniversary of AUTH, October 2016
- Excellence Award for National Exams of May 2014 (19550 / 20000), February 2015

**Languages**

Greek (Native), English (C2 | Michigan Proficiency)

**Computer Skills**

- Excellent knowledge of CAD software | Solidworks, AutoCAD, OpenVSP
- Excellent knowledge of CAE software | ANSA, META, Epilysis (certification available) | KOMVOS, ANSYS Fluent, Mechanical, ACP, Workbench
- Programming languages:
  - Advanced level: Python, Matlab and Simulink
  - Entry level: C/C++
- Audio/Video editing software: Camtasia
- Office Software: MS Word, MS Excel, MS PowerPoint

**Extra-Curricular Activities**

Playing the Guitar, Reading Literature, Cinema, Exploring New Places, Learning and improving skills