

# PROTOPAPADAKIS Georgios

## Mechanical Engineer with a Research Master in Fluid Dynamics

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Thessaloniki, 54636, Greece

## EXPERIENCE

- 📅 2020 - Present,  
HECARRUS, a Horizon 2020 / Clean Sky 2 project  
Hybrid Electric small commuter aircraft conceptual design  
\* Qualitative assessment of hybrid-electric aircraft concepts  
\* Numerical methods and tools for gas turbine modelling
- 📅 2018 - 2019,  
Code development for the computation of grid sensitivities through the adjoint approach for gradient based optimization  
Master Thesis at von Karman Institute  
\* Code development in C++
- 📅 2018 - 2018,  
Conceptual prediction of noise level of intercooled - recuperated aero-engines  
Master Thesis at Aristotle University of Thessaloniki
- 📅 2017 - 2017,  
Internship at Von Karman Institute,  
Fluid dynamics and Thermodynamics.  
\* Thermodynamic cycle calculations
- 📅 2016 - 2018,  
Aristotle Space and Aeronautics Team,  
Founding member of Rocketry department,  
Specialized in Propulsion  
\* Aerodynamic and thermodynamic simulations

## EDUCATION

### PhD Candidate

Laboratory of Fluid Mechanics and Turbomachinery, Mechanical Engineering Department, Aristotle University of Thessaloniki

📅 2020 - Present

- **PhD Title:** Digital Twins and their application in turbomachinery and/or aeroengines for predictive maintenance

### Post-Graduate Research Master in Fluid Dynamics

von Karman Institute for Fluid Dynamics, Belgium

📅 2018 - 2019

- Option: Turbomachinery and propulsion

### Degree in Mechanical Engineering

Aristotle University of Thessaloniki, Greece

📅 2013 - 2018

- Option: Energy - Aeronautics and engines

## STRENGTHS

Commitment    Motivation    Initiative    Critical mind    Curiosity  
Team Work    Adaptability    Trustworthiness & Ethics

## SKILLS

- Development of computation code for modelling and simulations
- Automatic optimization techniques
- Turbomachinery design, development and dimensioning

## TOOLS

### Engineer Tools

- ANSYS CFX/Fluent and Mechanical
- SolidWorks
- Matlab

### Programming

- C++
- Python (basics)

### Office

- MS Word, Power Point and Excel
- LaTeX

### O.S.

- Linux, Windows

### Others

- Git, CMake, Qt

## INTERESTS

- Gas turbines development and optimization for the reduction of environmental impact
- Technological innovation in aeronautics and aerospace
- Travelling, hiking and landscape photography
- Practicing individual and team sports such as cycling and basketball

## LANGUAGES

English    ●●●●●

French    ●●●●●

Greek    ●●●●●