

Mavroudis D. Kavvalos *Dipl.-Ing. MSc*

PhD Researcher in Gas Turbine Engineering

Future Energy Center, Mälardalen University (MDH)
Västerås, Sweden

Born in Greece, Mavroudis is research-oriented mechanical engineer, holding a first-class honours MSc in Gas Turbine Technology from Cranfield University in 2018, UK and a Dipl.-Ing. in Mechanical Engineering from the Aristotle University of Thessaloniki, Greece in 2017. Mavroudis is active in the areas of modelling and simulation, electrified propulsion, gas turbine performance, turbomachinery design, open-rotor aerodynamics and probabilistic analysis.

Mavroudis' doctoral research focuses on aero-engine conceptual design under uncertainty for innovative aircraft architectures, including advanced fan/compressor transient performance modelling. His work lies within the purview of two EU-funded collaborative research projects; namely Turbo Electric Aircraft Design Environment (TRADE) and Hybrid Electric Small Commuter Aircraft Conceptual Design (HECARRUS), where he is in charge of the propulsion system architecture and whole systems integration.

He has been involved in several propulsion-related projects; among others, propeller-airframe interaction aerodynamics, rotorcraft performance and gas turbine diagnostics. Mavroudis serves also as a teaching assistant for the gas turbine and turbomachinery design course within the Energy and Environmental Engineering postgraduate scheme at Mälardalen University since 2018.

Mavroudis has been elected as Vice-Chair of the IGTI Student Advisory Committee (SAC) for the upcoming ASME Turbo Expo 2021 and is a recipient of five scholarships, including two SAC travel awards by ASME IGTI in 2019 and 2020. He serves as reviewer and member of the Aircraft Engines and Cycle Innovations IGTI Committees for over two years.

