Fabio Polese
07/04/1999
Rome, Italy

📞 +39-3392050724
✉ fabiopolese31@gmail.com
🔗 Fabio Polese

EDUCATION

- **Master's Degree in Aeronautical Engineering**   2021 – 2024
  La Sapienza, University of Rome   110/110 *cum laude*
  Thesis in Control Systems & Flight Dynamics:
  Formation Control for Cooperative Slung Load Transportation
- **Bachelor's Degree in Aerospace Engineering**   2018 – 2021
  La Sapienza, University of Rome   110/110 *cum laude*
  Thesis in Aeroelasticity:
  Equivalent Mechanical Models for Sloshing in Aeronautical Tanks

WORK EXPERIENCE

- **Sapienza Flight Team Member**, La Sapienza Univeristy of Rome   2020 – 2021
  Member of the SITL/HITL Subteam: development and validation of an autopilot
  for a fixed-wing drone in Matlab & Simulink envirorment.
- **Rugby Coach**, Arvalia Villa Pamphili Rugby Roma   2016 – 2022
  Rugby coaching abilitation: coaching of under-twelve children teams, managing relationships with parents,
   and organizing documents for regional and national matches.

PROJECTS

- **Acoustics Laboratory**
  Acoustic signature recognition of vehicles and aircraft using Noise & Vibration Works   2023
  and acoustic characterization of a room using Ramsete comparing with real measurements.
- **Helicopter Flight Mechanics Team Project**
  Trim parameters determination for a helicopter in horizontal flight condition and application   2023
  of the blade element momentum theory to a rotor in hovering flight condition using Matlab.
- **Flight Dynamics Team Project**
  Validation of the dynamic model of a balsa glider model, stability and input response analysis   2022
  of the *Learjet* 24 aircraft using Matlab & Simulink.

TECHNICAL SKILLS

Computer OS: Windows, Linux, macOS
Computer Skills: Matlab, Simulink, Wolfram Mathematica, Python, Microsoft Office, Latex, CFD++, MSC Patran
and Nastran, XFLR5, Ramsete, NSW, Solidedge, Fortran, C, C++
Soft Skills: Public speaking, Teamwork, Problem solving, Stress management, Critical thinking
Areas of Interest: Flight Dynamics, Helicopter Flight Dynamics, Control Systems

LANGUAGES

Italian: native proficiency
English: professional proficiency

ACHIEVEMENTS

- **EBEC/BEST Competition** 2nd place in national round with *Calcetto Aerospaziale team*   2022
- **EBEC/BEST Competition** 1st place in local round with *Calcetto Aerospaziale* team   2021