ANGELOS THEOFILATOS



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Summary

Researcher with experience in materials science and engineering, technical project coordination, proposal support, and interdisciplinary collaboration, complemented by knowledge of spacecraft engineering. My background combines scientific and engineering experience with project management responsibilities, including planning and tracking activities, technical reporting, and coordination with international stakeholders. As co-founder of a startup, I have gained hands-on experience in operational planning, partnerships, and business development.

Professional Experience

RESEARCHER | ACCESS E.V., GERMANY

09/2017 - **PRESENT**

- Contributed to national and international projects
- Preparation of technical documentation and project reports
- Presented research results at international conferences
- Developed and implemented a ML-based microstructure analysis tool, improving evaluation accuracy and reproducibility
- Investigated printability and mechanical performance of additively manufactured alloys
- Developed small Python tools for numerical simulations, data analysis to support research activities

STUDENT ASSISTANT | ACCESS E.V., RWTH AACHEN, GERMANY

02/2015 - 07/2017

- Research and technical support on materials science and solidification processes, assisting in experimental and computational analysis

ERASMUS+ TRAINEESHIP | ACCESS E.V., RWTH AACHEN, GERMANY

09/2014 - 01/2015

- Development of a numerical model on Maple math software

Education

M.SC. IN PHYSICS | RWTH AACHEN, GERMANY

04/2015 - 07/2017

- Courses: Orbital mechanics, spacecraft design, spacecraft propulsion, materials science

B.SC. IN PHYSICS | UNIVERSITY OF IOANNINA, GREECE

09/2009 - 07/2014

- 4-year degree
- Courses: Astrophysics, nuclear physics, quantum mechanics

Side Projects

PROPULSION ENGINEER | SPACE TEAM AACHEN

07/2023 – 12/2025

- Contributed to Hopper, a hover-capable, controlled-landing rocket
- Designed the team's first bi-liquid rocket engine, applying additive manufacturing techniques from material selection and CAD design through to final production
- Oversaw the full end-to-end hardware development process, gaining practical exposure to the challenges of moving from design to manufactured and testable hardware

OPERATIONS MANAGER / CO-FOUNDER | RAIVOTECH P.C.

2020 - 2024

- Coordinated team activities, assigned tasks, tracked progress against milestones, and identified issues and risks.
- Prepared grant applications, coordinating contributions across team members and aligning deliverables with funding requirements.
- Participation in: NBG Business Seeds (12th cycle 2021-2022, 13th cycle 2022-2023), EIT Health SymbIASIS 2022, Orange Grove 2022, Patras Science Park

Computer Skills

- Python, Fortran
- Ansys Systems Tool Kit (STK)
- Siemens NX, Autodesk Netfabb, Autodesk Fusion
- Maple math software
- MS Office
- Windows, Linux

Languages

- **Greek:** Native speaker
- **English:** Proficient
- **German:** Advanced

Courses - Certificates

- Systems Tool Kit Certification Level 1
- Professional Scrum Product Owner (PSPO I)
- Google Project Management Professional Certificate (7 courses)
- Scrum Compact, RWTH Aachen
- New Space Economy, edX - EPFL
- Space Entrepreneurship 101, Udemy
- Leadership: Practical Leadership Skills, Udemy
- Business Analysis & Project Management, Coursera
- ESA Space Systems Engineering Training Course 2020/2021

Soft skills

- Structured, reliable, and detail-oriented working style
- Analytical and problem-solving approach
- Communication across interdisciplinary and international teams
- High adaptability and broad technical knowledge

Hobbies and interests

- Amateur astronomy, photography, fitness, cycling, reading, movies