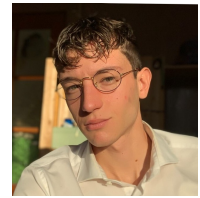


Michael Plumaris

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LINKEDIN: www.linkedin.com/in/michael-plumaris-3b30a6185/



PROFILE

Highly achievement-oriented engineer with international background pursuing a PhD in Aerospace Engineering, with an emphasis on radio science and relativity. Confident in leadership situations due to experience gained as president of large student body; mastering English, French, Italian and Greek.

EDUCATION

- | | |
|------------------|---|
| JAN 22 - CURRENT | PhD at Radio Science Laboratory
Sapienza University of Rome, Italy
THEME: <i>Time-Frequency Transfer and Orbit Determination Systems for Deep Space Applications</i>
SUPERVISOR: <i>Luciano Iess</i> |
| SEP 19 - DEC 21 | MSc in Spaceflight (Cum Laude)
Delft University of Technology, The Netherlands
COURSES AND GRADE: <i>Propagation and Optimisation in Astrodynamics, Satellite Orbit Determination, Planetary Sciences, Object-Oriented C++ ...</i>
THESIS: <i>Cold-Atom Interferometry for enhancing the Radio Science Gravity Experiment: a Phobos case study</i>
SUPERVISORS: <i>Dominic Dirkx, Christian Siemes</i> |
| SEP 16 - JUL 19 | BSc in Aerospace Engineering (Cum Laude)
Delft University of Technology, The Netherlands
MINOR: <i>Artificial Intelligence at NTU Singapore</i>
FINAL PROJECT: <i>Design of CubeSat Constellation in Earth Observing mission</i> |

WORK EXPERIENCE

- | | |
|---------------|--|
| NOV 20-JAN 21 | Future Missions & Instruments Division Intern
ESTEC, Noordwijk, The Netherlands
<i>Cold-Atom Interferometry for gravity field modelling of small-body missions</i> |
| JUL-OCT 20 | Sentinel-3 Flight Operations Division Intern
EUMETSAT, Darmstadt, Germany
<i>Extended multi-mission analysis and reporting software tools, geared towards automation and visualisation of spacecraft data</i> |
| SEP 15-JUL 16 | Student President
European School of Brussels II, Belgium
<i>Chaired councils, managed school budget, coordinated multicultural student body</i> |

SPOKEN LANGUAGES AND SOFTWARE SKILLS

- | | |
|------------------------------------|---|
| ITALIAN: Native Speaker | GENERIC: Python, C++, Matlab, Unix, MS Office |
| ENGLISH: C2 level (TOEFL: 112/120) | TECHNICAL: MONTE (Python) Orbit Determination Toolbox |
| FRENCH: Native Speaker | Tensorflow (Python) Machine Learning Toolbox |
| GREEK: Native Speaker | Pagmo (C++) Parallel Optimisation Toolbox |
| | Tudat (C++) Astrodynamics Toolbox |
| | GHOST (C++) POD software tools |
| | DESIGN: Catia V5 CAD |

PUBLICATIONS

Plumaris, M.; Dirkx, D.; Siemes, C.; Carraz, O. Cold Atom Interferometry for Enhancing the Radio Science Gravity Experiment: A Phobos Case Study. *Remote Sens.* 2022, 14, 3030. <https://doi.org/10.3390/rs14133030>

Plumaris, M; De Marchi, F; Cascioli, G. Iess, L.; Testing theories of gravitation with the Interstellar Probe Radio Experiment: A White Paper submitted to the NASA Heliophysics Vision 2050 Workshop

Di Benedetto et al.; An architecture for a lunar navigation system: orbit determination and time synchronization; 8th International Colloquium on Scientific and Fundamental Aspects of GNSS, September 2022 in Sofia, Bulgaria

Dirkx et al. : The open-source astrodynamics Tudatpy software. Overview for planetary mission design and science analysis, Europlanet Science Congress 2022, Granada, Spain, 18–23 Sep 2022, EPSC2022-253, <https://doi.org/10.5194/epsc2022-253>, 2022.