

Saverio CAMBIONI

M.Sc. student in Space and Astronautical Engineering, Sapienza, University of Rome

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Education

Exchange student at TU Delft, The Netherlands, Erasmus Program (02/2016 – 07/2016)

Courses in Space Instrumentation Engineering, Microsatellite Engineering, Mass Transport in the Earth's System, Adaptive Aerospace Structures and Materials Characterization.

B.Sc. Aerospace Engineering (with honors), Sapienza, University of Rome (Italy, 28/07/2014)

Student of advanced courses in Aerospace Engineering (merit-based selection): "Partial differential Equations", "Fourier optics and holography in microarrays of liquid crystals", "Arduino platform". Technical visit of AVIO (Colleferro) and Tecnologie Avanzate (FR).

Student at University College "Lamaro Pozzani", Rome, Italy (in progress)

Course of "Business culture - Gaetano Marzotto"; language courses of English (C2 Level) and Arabic (Beginner Level); seminars on Public Speaking. Meetings with Professors, Businessmen and Politicians take place every week. Official visits at European Institutions in Brussel (Commission, Parliament, delegation of Confindustria), Italian Permanent Representative to ONU in Vienna, Italian Ambassador to Hungary and Lithuania, Poland, Kaliningrad (Russia).

Professional experience and projects

Experience at ASI's CEF (Concurrent Engineering Facility), Fall Semester 2015/2016

Preliminary design of IKUNS satellite as a part of Spacecraft Design course.

Juno-related internship at Lunar and Planetary Laboratory, University of Arizona (USA, from August to November 2015)

Implementation of the Concentric Maclaurin spheroid model for Jupiter (NASA's Juno space mission). Supervisors: professor W. B. Hubbard (LPL) and professor L. Iess (Sapienza). Juno STM (Science Team Meeting) in Washington, November 2015. Fellowship provided by ASI (Italian Space Agency) and ISSNAF.

Pre4th MISSION IDEA CONTEST Workshop, Tokyo, Japan, July 2015

Presentation of HORUS, a Cubesat constellation reproducing NASA's MISR (Multi-angle Imaging SpectroRadiometer) in a synthetic way. The project is developed by my team at S⁵ Laboratory, La Sapienza, University of Rome.

Research at S⁵ Laboratory, La Sapienza, Rome, 2015

Collaboration with Professor Fabrizio Piergentili and Professor Fabio Santoni (Space systems). Realization of a software for the optimization of a CCD-telescope configuration, EQUO (EQUatorial Observatory) project, space surveillance.

SNSB/ESA Selection Workshop, REXUS BEXUS program, ESTEC, The Netherlands, Dec 2014

Project manager of IRIDIUM experiment (Investigating Radiation Impact and Damages in UV Sensitive Materials).

SPACE APP CHALLENGE 2014, La Sapienza, Rome, April 2014

Member of the winning team with LOOK APP. LOOK APP is a IOs application sending you real time notifications about astrophysical events and sky phenomena happening right above your head.

Memberships

Alumnus of Community of Ariane Cities

Summer school (highly selective, 26 students selected from all Europe), Liege, Belgium, July 2014.

Activities: team project: design and analysis of a nano-launcher, technical visit of DLR, EAC and TECHSPACE AERO, high level courses on launchers with specialists.

Professional visit at the European spaceport, Kourou (French Guiana), one week in March 2015.

Alumnus InnovActionLab (the most important Italian start-up incubator)

Lectures on startup fundamentals; co-founder of Washery, a startup in the carwash service.

Publications

8. Cambioni, S., 2016. *Space Darwinism*. Journal article on the evolution of the access to space. "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2016/4.
7. Pellegrino, Alice, Caprara, Cambioni, Carbone, Cau, Cerini, Pacchi; "Look App", A Free Ios Application For Space Events, IAC-15.E2.3-YPVF.4.1x28617, IAC Jerusalem 2015
6. Cambioni, S., 2015. *Following the water*. Journal interview with Dr. Alfred S. McEwen, LPL. "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2015/8.
5. Cambioni, S., 2015. *Space University Challenge*. Journal article on SpaceApps challenge in Rome, "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2015/2.
4. Cambioni, S., 2014. *Design and manufacturing of a controlled flexible anthropomorphic finger for space applications*. B.Sc. Thesis, Supervisor: Professor Paolo Gasbarri. La Sapienza, University of Rome.
3. Cambioni, S., 2014. *Aeronautics during the First World War*. Journal article. "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2014/1.
2. Cambioni, S., 2012. *Technological power in orbit*. Journal article about space race during the cold war. "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2012/2.
1. Cambioni, S., 2011. *Space to Brazil*. Journal article about Brazilian space program "Panorama per i giovani" (Journal of College "Lamaro Pozzani"), 2011/3.

Grants

2015	<i>Internship in a US research facility; ISSNAF – ASI grant.</i>
2014	<i>Graduation as a student of the advanced course in Aerospace Engineering; La Sapienza</i>
2011-2014	<i>University tax exemption for merit; La Sapienza, Università di Roma</i>
2011-2016	<i>Student of University College "Lamaro Pozzani"; Fed. Naz. Cavalieri del Lavoro.</i>
2012	<i>Exceptional results during high school; Italian minister for Public Education.</i>
2011	<i>Best idea for the requalification of an abandoned urban area; Rotary Club.</i>

Awards

2014	<i>First award at SpaceApps Challenge Rome; NASA incubator innovation program.</i>
2011	<i>Best essay on the “150th anniversary of the Italian unification”;</i> Lions Club International.
2010	SS Sant’Anna summer school (highly selective); University of Pisa.

Computer skills

- **Softwares:** Adina structure, Solidworks, Matlab, IDL, STK, Microsoft Office tools.

Certifications

- **IELTS** overall grade 7.5
- **GRE:** Analytical Writing 3.5/6
Verbal Reasoning 160/170
Quantitative Reasoning 162/170

Additional information

I got my high school diploma with honours. I spent two weeks in England for studying English during my high school. I have been a boy scout for 14 years. I play the guitar. I worked as a bartender for two summers. I love hiking, travelling and discovering new places.