Federico Baldisseri

EDUCATION

Master of Science in Control Engineering   **Rome, Italy**
Sapienza University of Rome   2020-Present
- Selected in the top 5% of the course for the Student Honors Program
- Grade average: 28.7/30
- Master Thesis: *MusicalMente* - Artificial Intelligence and Music Therapy in Support of Pediatric Neurorehabilitation.
  It is presented a state-of-the-art study on learning algorithms for biomedical applications and on music therapy techniques. It is performed the conception and initial implementation in Unity of five rehabilitative games which train different cognitive faculties. An Artificial Neural Network architecture is designed in order to automatically adapt the game difficulty to the current capabilities of the child. Experimental simulations from a first data collection are analyzed and discussed. Further developments for an effective implementation in a pediatric hospital are designed.
- Completed projects on Robotics II and Autonomous and Mobile Robotics

Bachelor of Science in Management Engineering   **Rome, Italy**
Sapienza University of Rome   2017-2020
- Graduation Grade: 110/110 cum Laude
- Selected in the top %10 students of the course

High School   **Rome, Italy**
Classical Liceum F. Vivona   2012-2017
- Graduation Grade: 100/100
- Worthy Student Award

WORK EXPERIENCE

Technology transfer activities   **Rome, Italy**
Sapienza University of Rome   2022
- Coordinated and presented Project *MusicalMente* to the doctors and psychologists of *Ospedale Pediatrico Bambino Gesù* for a possible collaboration and implementation.
- Took part in the *Regione Lazio Vitamina G* competition with Project *MusicalMente*
- Produced material for presenting Project *MusicalMente* at charity founding events
- Held a seminar on Project *MusicalMente* at *Sapienza University of Rome*
- Working on submitting Project *MusicalMente* to *Horizon Europe* in order to build a start-up

Sailing instructor   **S. Stefano, Italy**
Argentario Federal Sailing School   summer 2016-2021
- Sailing lessons for children and adults

Private lessons   **Rome, Italy**
- Private lectures for middle and high school on maths, physics, and science   2020-Present

LANGUAGES AND COMPUTER SKILLS

- **Languages:** Italian (native), English (Cambridge FCE), French (Delf B1)
- **IT skills:** Matlab, Simulink, Python, AMPL, C++, C#, Microsoft Office Package, Latex, SQL

ADDITIONAL EXPERIENCE

- Founder of the Armon project in collaboration with Direzione Musei Statali della Città di Roma (Management of Rome public museums), and with Comune di Città di Castello, to promote Arts and Culture. Pianist, Music Producer, Drone Pilot and Video Editor. YouTube channel: ArmonArt