

Industrial Patent

- 2009 Pending "Roto-traslatory articulation with ligaments"
- 2009 Pending "Method and device for integral motorial and sensorial interface between a pilot and an aerial vehicle, architecture of an aerial vehicle"
- 2000 Registration [US 6,273,371](#), IT PI98A0075 "Method for interfacing a pilot with the aerodynamic state of the surfaces of an aircraft and body interface to carry out this method", a.k.a. Aerodynamic Smart Skin System (AS3), a haptic sensorial transposition kit for airplane pilots (<http://www.karenfuxia.com/projects/as3.htm>)

Education

- 2002-2003 DEA (Master) Sciences Cognitives [Paris](#), (EHESS, Paris VI, Ecole Polytechnique, Ecole Normale Supérieure), Stage @ Department of Computer Science ENS, Prof. [Giuseppe Longo](#), "Complexite et information morphologique". Final dissertation "Subject-Object entanglement in information measure" mention assez bien (http://www.karenfuxia.com/publishing/download_sq.htm)
- 1999-2002 Bachelor's degree in Physical Technologies @ [Dipartimento di Fisica](#) in Pisa, Italy, Final dissertation "Research of cognitive invariants in the haptic exploration of virtual contours", 110/110 and lode
- Third year of studies in Erasmus exchange program @ [Licence/Maitrise](#) in Physique Fondamentale, [Paris XI University](#)
 - First and second year of studies in Physical Methodologies @ [Dipartimento di Fisica](#) in Pisa, Italy
- 1992-1999 Self-taught matters related to logic, physics, aeronautical engineering
- 1991 Private Pilot course and licence in US
- 1989-1990 Faculty of Aeronautical Engineering of Pisa, Italy
- 1994-1999 High school diploma as robotic technician, 54/60

Languages

- English Fluent, permanence in USA
- French Proficient (2 years of studies in France, long term relationship with french person)
- Spanish Native tongue (mother)
- Italian Native tongue (father)

Software

- Pro\ENGINEER CAD software (Pro\FEATURE, ASSEMBLY, SURFACE, DETAIL, etc.) knowledge to professional standard. Heavy work experience and instructor on behalf of [PTC](#) . Pro\MECHANICA at a basic level
- Matlab 3 semester courses in Physical Models. Good knowledge. Able of setting up complex physical modelizations and performing code optimizations. Wrote a code for aircraft aerodynamic configuration study for personal use.
- C, assembler Fair knowledge. Computer programming since 14 years old, easy learning of any kind of languages
- XFoil Subsonic airfoil development. Deep knowledge and utilization of the code; experimental validation or reverse engineering purposes, newsgroup activity. (<http://web.mit.edu/drela/Public/web/xfoil/>)

X-Plane Aircraft configuration software. Deep knowledge and utilization of the code for testing designs or reverse engineering purposes (www.x-plane.com)

Adobe Photoshop: knowledge at photographer professional standard. Premiere: Short film making (demos, spots, technical)

OS Full computer literate (MS Windows, MS Office, basic LINUX), website design e.g. www.karenfuxia.com/

Other experiences

1994-1995 Social initiatives for the youth (music laboratories, photography and video courses) c/o the Town Halls of San Miniato and Fucecchio, Italy. Theater technician and stage photographer

1993-1994 Civil Service in social assistance of handicapped children and adults, c/o the Town Hall of San Miniato (PI), Italy

1994-1999 Pilot of hang-gliders and paragliders for about 200 hrs, silver patch

1991, 1999 Pilot of single engine aircrafts :

- tri- and bicycle gears, for 85 hrs tt (50 as Pilot In Command) in U.S.A. and Chile (C150/152/172, PA-18, BO-208, Luscombe, Ercoupe)
- Competition aerobatic training (10 hrs) in Pitts S2A, able to fly a sequence at Sportsman level

1991-1995 Scene photographer, personal B/W dark room, some expositions (for some photos see <http://www.wai.org.uk/gallery/theatre/elan/index.html>)

1973- Several journeys and permanences in Europe, U.S.A. and Chile, for studies, work, living and tourism

Interests, sports and attitudes

Interests: Cognitive Science, fundamental and applied Physics, matters of Logic, Philosophy of Science and Language, Aeronautical Engineering, Technic, Photography, Classical music, Flying

Classical Music:

2000 3 year Classical Piano licence

1998 Music Theory and Solfeggio licence

1996-2000 Classical Piano, Classical Cello studies

Flying:

2003 Skydive training (Maubeuge, FRA)

1999 Competition aerobatic training (Pensacola FL, U.S.A.)

1995 Hang-glider licence

1991 United States Private Pilot licence (1st Class Medical)

Sport: judo, athletics, volleyball, swimming, cycling, fencing, free-climbing, olimpic gymnastic (basics), contemporary dance, flying

Learner, organizer. Interdisciplinary, pro-active, enthusiast attitude.
Outstanding passion for flying since ever

Last updated MAY 2009