

Name	BARBARA IMHOF	BORN: 1969
Expertise		
Project Management, Business Development, Systems Design, Architecture, Human Factors, Interdisciplinary Research, International Cooperation		
Education		
2006	PhD (Architecture: Building Construction and Structural Engineering) at the University of Technology Vienna, Austria: Dissertation Title: "An Architectural Approach to a Long Duration Human Space Mission; Case study: Human Mission to Mars"	
1997	Master of Space Studies, International Space University, Strasbourg, France	
1996	Degree in Architecture, Academy of Applied Arts, Vienna, Austria	
Experience		
2003 - present		
Co-Founder, Principal, Project Manager, Design Architect, LIQUIFER Systems Group (LSG), Vienna		
Selected projects:		
- Deployable Getaway – design of a foldable crew cabin for the International Space Station, national space research funded by the FFG, 2007-2009 <u>Responsibilities</u> : Project Management, rover layout and design in collaboration with LSG team		
- RAMA - Rover For Advanced Mission Applications, 2007-09, Client: Thales Alenia Space, European Space Agency; in the frame of the Analysis of Surface Architecture for European Space Exploration - Element Design. <u>Responsibilities</u> : Project Management, rover layout and design in collaboration with LSG team		
- Remodeling of the Austrian Research and Promotion Agency and the Austrian Space Agency, Vienna, Austria, 2003/04; <u>Responsibilities</u> : Design for reconfiguration, detail planning, implementation and construction oversight		
- Human Mission to Mars (HMM) Study, 2004; client: ESA-Concurrent Design Facility (CDF), <u>Responsibilities</u> : Architectural design, systems configuration, direct interface with ESA-CDF team		
- ExoMars Rover Design Study; client: ESA-ESTEC, completed in 2004, <u>Responsibilities</u> : Industrial design in collaboration with G. Pamperl and P. Mayr, systems configuration		
- Raumstation Skylab 5, Exhibition design for ZOOM Children's Museum, Vienna, Austria 2005; <u>Responsibilities</u> : Design and concept development, interfacing with the city planning department for approvals, managing the detail design phase, construction oversight (exhibition architecture)		
- Deployable structures for a human lunar base, 2006; Proposal selected competitively from 40 European entries; Client: Alcatel Alenia Aerospazio; <u>Responsibilities</u> : Proposal preparation, contract management, design development		
- Definition Study of a Facility for Integrated Planetary Exploration Simulation (FIPES), client: ESA-ESTEC; completed in 2006 <u>Responsibilities</u> : Contract management, finance management, negotiations, simulator concept and design, cost calculations		
1997 - 2003		
Co-Founder, Principal, Project Manager, Design Architect, ESCAPE*spHERE, Architecture Firm, Vienna		
Selected projects:		
- Installation for the ARS ELECTRONICA Festival 2001, Linz, Austria; <u>Responsibilities</u> : Overall configuration design, prototype design and construction, installation management		

- Reconstruction of the Vienna Female Culture Centre, Vienna, Austria, Competition entry awarded 1st prize in 2001, project completed in 2003; Responsibilities: Proposal preparation (Concept + Design), Presentation to the Austrian jury, Interfacing with the city Planning Department for approvals, Managing detailed design phase, Construction oversight

- Bicycle Garage in Krems, Austria, Competition entry awarded 1st prize in 2000; Responsibilities: Design + concept development, Proposal preparation, Presentation to competition Jury

Since 2007

Chalmers University, Institute for Design for Sustainable Development , Gothenburg, Sweden, Supervisor for the PHD studio

Assistant professor, 2005/06

ETH-Zurich, Zurich, Switzerland, Department of Architecture, bofi benutzeroberflaeche, Prof. Gregor Eichinger, Research and teaching unit in [space]architecture "EarthHab-SpaceHab", with the astronaut client Claude Nicollier

1998 - 2006

Assistant Professor, Institute of Design and Building Construction, University of Technology, Vienna

- Lectured and managed architectural studios and workshops for terrestrial and space architecture projects

1996-1997

Architect, BIOPLEX Project, NASA Johnson Space Center (JSC), Houston, USA

Project Architect, concept and design advancement and continuation of the work in progress, interfacing with the engineering team and Human factors and nutrition experts

Relevant Projects Overview

With NASA, ESA, ASA, MoonFront, LIQUIFER, Mars Society, Lunar Explorers Society and others.

1. Deployable Getaway for the International Space Station (completed in 2009) and for the open plan office (ongoing) – two prototypes for two different environments with a synergetic approach
2. RAMA - Rover For Advanced Mission Applications, 2007-09, Client: Thales Alenia Space, European Space Agency; in the frame of the Analysis of Surface Architecture for European Space Exploration
3. Deployable structures for a human lunar base, 2006; Client: Alcatel Alenia Aerospazio;
4. Definition Study of a Facility for Integrated Planetary Exploration Simulation (FIPES), client: ESA-ESTEC; 2006
5. Human Mission to Mars Study – AURORA Programme, ESA-ESTEC, CDF-TN-030, [Interior] Configuration Options, Habitability and Architectural Aspects of the Transfer Habitat Module (THM) and the Surface Habitat on Mars (SHM)
6. TRANSCRIPTS OF AN ARCHITECTURAL JOURNEY - Musings towards a new genre in [space] architecture – Research-Project – book publication
7. Socio-Psychological Aspects For Long Duration Human Spaceflight: SAE Technical Papers, 2003-01-2537, Title: The Socio-Psychological Impact of Architectural Spaces in Long-Duration Mission, International Conference On Environmental Systems, July 2003, Vancouver, BC, CANAD, Session: Human Factors
8. Lunar Base Design Workshop, held in ESA-ESTEC, Noordwijk, The Netherlands from 10-21 June 2002, SAE Technical Papers, 2003-01-2652, Title: European Lunar Base Concepts, International Conference On Environmental Systems, July 2003, Vancouver, BC, CANAD, Session: Aerospace Architecture II: Habitats, Hardware, and Philosophy
9. Future Shelter Project, TU-Vienna 2000: SAE Technical Papers, 2001-01-2174, Title: Mars Surface Habitats: Architectural Designs and Concepts for Planetary Outpost, 31st International Conference On Environmental Systems, July 2001, Orlando, FL, USA, Session: Aerospace Architecture I - Practice and Methodology
10. BIOPLEX, A FUTURE LIFE ON EXTERRESTIAL PLANETS, NASA, JSC, Houston, Texas, 1997, Design proposals for the Flight Crew Support Division at the NASA Johnson Space Center (JSC) show architectural spaces for a large scale human rated test facility, a prestudy for the human mission to Mars. - <http://advlifesupport.jsc.nasa.gov>
11. External reviewer in the studies of a two-month isolation test at NASA JSC
12. NASA JSC: Participated in the physiological training for the parabolic flights; volunteered as a test subject for ongoing Mir-Shuttle docking study and a 5-week resistance exercise regime study for

long duration stays on the new International Space Station (ISS).
Papers + Publications + Lectures
Several technical and design papers presented at conferences in United States, Netherlands, Belgium and Austria. Several publications of student projects in Austria, Germany, United States, and Japan. Exhibitions in Berlin, Los Angeles, Switzerland and Cologne. Invited for lectures in United States and Europe. Detailed list available upon request.
Memberships
Dutch Architect's Chamber SBA, Member of the Space Architecture Organization (www.spacearchitect.org) American Institute for Aeronautics and Astronautics AIAA, International Lunar Explorers Working Group (ILEWG)