

<b>Name</b>	<b>SUSMITA MOHANTY</b>
<b>Expertise</b>	
Business Development, Bid & Proposal, Negotiations, Project Management, Industrial Design, Systems Engineering, Space habitats and crew systems design, Interdisciplinary Research, International Cooperation	
<b>Education</b>	
2006	PhD Dissertation (ongoing), Lund Institute of Technology (LTH), Sweden; Dissertation title: "Hyper-Fidelity Simulators for Planetary Exploration"
2005	Licentiate Degree in Engineering, Lund Institute of Technology (LTH), Sweden
1997	Master of Space Studies, International Space University (ISU), France
1996	Master of Design, Industrial Design, National Institute of Design, India
1993	Bachelor of Engineering, Electrical Engineering, Gujarat University, India
<b>Experience</b>	
<b>2003-present</b>	
<b>Co-Founder &amp; Principal, LIQUIFER, Vienna</b>	
LIQUIFER = Aerospace Architecture & Design firm, <a href="http://www.liquifer.at">www.liquifer.at</a>	
Responsibilities: Business Development, Project Management, Proposal Writing, Systems Engineering, Crew Systems Design, Aerospace Architecture	
Clients & Partners: European Space Agency, Austrian Space Agency, Alenia Aerospazio, OURS Foundation, Maison d'Ailleurs, Austrian Ministry of Technology, Lunar Explorers Society, Umbilical Design, Lunar Architecture, ArchStudio, m+w zander, Fibre Design, Inc.	
Project portfolio @ <a href="http://www.liquifer.at">www.liquifer.at</a>	
<b>2001-present</b>	
<b>Co-Founder &amp; Managing Director, MoonFront LLC, San Francisco</b>	
MOONFRONT = Aerospace Consultancy, <a href="http://www.moonfront.com">www.moonfront.com</a>	
Responsibilities: Company Operations, Legal and Financial Matters, Business Development, Proposal Writing, Client Relations, Project Management, Consulting, Press Relations	
Clients & Partners: NASA, Pentagram Inc, newdealdesign LLC, Mainstream Data Inc, Saad & Moss, Fibre3D, Art Center College of Design, Academy of Art, California Center for Arts and Crafts, Space Science Outreach And Research, Space Frontier Foundation, Space Generation Foundation, Girvan Institute of Technology, SpaceWorks Engineering Inc., Sputnik, Inc., SWISSNEX, CalPoly Pomona	
Project Portfolio @ <a href="http://www.moonfront.com">www.moonfront.com</a>	
<b>1998-2000</b>	
<b>Project Manager, Business Development, The Boeing Company, International Space Station (ISS) Program, California</b>	
<ul style="list-style-type: none"> <li>• Bid &amp; Proposal, Project Management for hardware &amp; technical service sales to Japanese &amp; European customers</li> <li>• Negotiated and won \$ 4.0 M Japanese contract for ISS hardware; Managed a \$ 1.5 M Japanese contract</li> <li>• Performed market assessments for future ISS business; Made recommendations to Boeing's executive management</li> <li>• Prepared forecast of ISS international new business for Boeing's annual 10-year operating plan</li> <li>• Developed business plans for ISS new business involving Eastern Europe &amp; Russia</li> <li>• Developed business plan for global commercial utilization of the ISS</li> </ul>	

**1996-1997****Systems Engineer, ISS and Shuttle-Mir Projects, Flight Crew Support Division, NASA Johnson Space Center, Houston**

- Interviewed Mir astronauts; Analyzed crew interviews from Shuttle-Mir missions to compile database on habitability issues
- Designed Zero-g Whole Body Cleansing System for ISS; Studied illumination issues for ISS on NASA's simulation software
- Was test subject to determine exercise regimes on ISS and to analyze speed/accuracy in Shuttle-Mir docking operations
- Underwent physiological training for Parabolic Flights (zero-gravity simulation)

**1998-present****Adjunct faculty and various invited lectures****Relevant Projects Overview**

With NASA, ESA, ASA, Boeing, MoonFront, LIQUIFER and others.

**Aerospace Architecture:**

- Design of Lunar bases
- Design of Martian habitats
- Design of saucer shaped orbiting station

**Crew Habitability System Design:**

- Microgravity restraint systems
- Wireless Augmented Reality Prototype
- Zero-G Whole Body Cleansing System
- Illumination studies
- Space Suit design for Mars exploration

**Other Relevant Projects**

- Skins by Design: Humans to Habitats
- Human factors analyses for Shuttle-Mir missions
- Clarke-Bradbury International Science Fiction Competition
- Forum to promote trans-Atlantic collaboration in Nanotechnology for space applications

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).

Mars Society: Member of Crew 26, Field Season 3; Participated in Mars mission simulation at the analog desert station in Utah, USA

USS Pampanito: Spent a night on World War II submarine USS Pampanito as part of a space simulator exercise.

Integrated Planetary Simulator Studies, Exploration Systems Engineering Office, NASA JSC  
Provided expert design guidance to Swedish student teams (architecture, engineering, industrial design) developing Moon/Mars Fast Track Simulator Concepts

**Papers + Publications + Lectures**

Several technical and design papers presented at conferences in United States, Canada, Europe, India.

Invited for lectures at leading architecture, design and engineering schools in India, France, Austria, Sweden, United States, and Netherlands.

Detailed list available upon request.

**Memberships**

American Institute of Aeronautics and Astronautics (AIAA) Technical Subcommittee on Aerospace Architecture, Lunar Explorers Society, Mars Society, Industrial Design Society of America

**Awards**

"Women in Aerospace" award 2005, International Achievement Award for Mohanty's commitment to global cooperation in space and her entrepreneurial approach to making it happen.