

Astrotecture™ Capabilities

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Research, Planning, and Design for all Gravity Regimes

Capability	Reference
Click on publications, click on bibliography: http://www.spacearchitect.org	

Astrobiology & Planetary Protection

- Mars Surface Science Lab SAE-1999-01-2142, SAE 2000-01-2344.
- Returned Sample Handling SAE-2002-01-2469, SAE-2003-01-2675.

Space Human Factors

- Crew Accommodations, Habitability NASA-TM-86702, US Patent No. 4,836,114, SAE-2004-01-2366, SAE-2008-01-2027, SAE-2009-01-2366.
- Crew Productivity SAE-901204, AIAA-2010-8846.
- Crew Safety NASA-CR-3855 (chap 2), AAS-93-883A, AIAA-2010-6134, AIAA-2010-8846.
- Requirements and Standards AIAA-2010-8846.
- Hypogravity Countermeasure Install AIAA 2002-6112.
- Timeline and Crew Integration SAE-2005-01-2792, AIAA-2010-8846.
- Working Environment, Human Eng'g. SAE-975632, SAE-2001-01-2142, AIAA-2010-8846.
- Work Stations US patent no. 5,261,735.

Space Architecture

Configurations (in-space, Moon Mars):

- Habitats SAE-961466, AIAA-96-4467, SAE-972485,
- Lunar-Planetary Base AAS-95-491, AIAA-2006-7335
- Modules SAE-2009-01-2366, AIAA-2010-6134,
- Nodes US Patents No. 4,728,060, 4,807,834
- Space Station US Patents No. 4,728,060, 4,807,834
- Lunar-Mars Outpost First Mars Habitat Architecture, *in press*
- Habitats and Surface Construction NASA-CP-97-206241, SAE-981800.
- Design Brief/Program MoonCapital <http://www.shiftboston.org>
- EVA Airlock & Suitport NASA-TM-86856, US Patent No. 4,842,224, AIAA- 95-1062, SAE-2000-01-2389.
- Mockups, Modeling, and Simulation
- Conceptual Fidelity SAE-2004-01-2366, SAE-2009-01-2236.
- Moderate Fidelity AIAA-2002-6112.
- Pressure Vessels for Human Occupancy Code and Standards Research for Human-Rated Habitat Simulation, *in press*.
- Mission Objectives/Design Evaluation SAE-961467, NASA-SP-6107, Lunar Objectives in Benaroya (Ed)(2010) *Space Settlements*.
- Multifunctional Wall Construction (MMOD, Primary Structure, Radiation) SAE 2004-01-2323, NRC (2008). Managing Radiation Risk . . ., AIAA-2009-2366.