

FINDING AID FOR THE JOHN R. GARMAN PAPERS, 1967-1998 (#2013-0006)

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Neumann Library
2700 Bay Area Blvd.
Houston TX 77058
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Descriptive Summary

Repository (049): University Archives

Collection #: 2013-0006

Title: John R. Garman Papers

Creator: John R. Garman

Inclusive Dates: 1967-1998

Bulk Dates: 1970-1995

Extant (300): 5.25 linear feet

Language (546): English

Administrative Information

Restrictions on Access (546): None

Restrictions on Use (540): None

Acquisition Information (541): Acquired from John R. Garman

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Biographical/Historical Note (545)

John R. Garman was born in Oak Park, Illinois on September 11, 1944. He obtained a Bachelor of Science degree in Engineering Physics from the University of Michigan in 1966. That same year, Garman began working for the Johnson Space Center as Director of Flight Operations for the Mission Planning and Analysis Division of the Flight Support Division. He obtained progressively more responsible positions until he was appointed Deputy Director of the Mission Support Directorate in 1986. The following year, Garman went to Washington, D.C. as Director of Information Systems Services at the Space Station Program Office. On returning to the Johnson Space Center in 1988, Garman held a variety of positions, culminating in Chief Information Officer in 1994. He left NASA in 2000 and joined OAO Corporation in Greenbelt, Maryland. Lockheed

Martin Information Technology of Seabrook, Maryland bought out OAO, and Garman became Technical Director, NASA Services for Lockheed Martin Information Technology. In 2010, Garman retired and became a consultant in software engineering and information technology. He is married to the former Susan Hallmark of Los Angeles, California and has two daughters.

Scope and Content (520)

Biographical information on Garman, documents on Apollo 11-16 missions and navigation systems, ALSA/SOMA programs and reports, programmed guidance equations and analysis, HAL compiler and language, STS avionics, the space station, Information Resource Management, photographs, and presentation slides.

Index Terms (6xx):

Personal Names: Garman, John R.

Corporate Names: National Aeronautics and Space Administration, Johnson Space Center

Subjects: Apollo, Space Station, Information Resource Management

Document Types: Programs, reports, memoranda, working papers, manuals, technical crew debriefings, presentations

Arrangement (351): Chronological

Inventory

<u>Box</u>	<u>Folder</u>	<u>Title</u>	<u>Dates</u>
1	1	John R. Garman Biographical Information	
	2	Apollo Missions and Navigation Systems Characteristics	Jan. 17, 1967
	3	Apollo Missions and Navigation Systems Characteristics	Dec. 15, 1967
	4	Apollo 11-16 Memos	Aug. 4, 1969- May 10, 1972
	5	Apollo 11-16 Memos	Aug. 4, 1969- May 10, 1972
	6	Description of Apollo Guidance Analysis Statistical Trials Problem	Sept. 2, 1969
	7	The Apollo 17 Task	Oct. 27, 1969
	8	ALSA/SOMA Program Final Report Volume 1 and Volume 1 and 2 CD	Jan. 1970- Jun. 1973
2	1	ALSA/SOMA Program Final Report Volume 1	Jan. 1970- Jun. 1973
	2	ALSA/SOMA Program Final Report Volume 2	Jul. 1972-Jun. 1973
	3	Viking 1977 and 1979 Performance Analysis	Jan. 27, 1971
	4	Programmed Guidance Equations for Colossus 3 Command Module, Earth Orbiter and Lunar Program Working Paper	Apr. 20, 1971
	5	Programmed Guidance Equations for Colossus 3 Command Module, Earth Orbiter and Lunar Program Working Paper	Apr. 20, 1971
3	1	Programmed Guidance Equations for Colossus 3 Command Module, Earth Orbiter and Lunar Program Working Paper	Apr. 20, 1971
	2	HAL Compiler and Language Specification Document	Jun. 1971
	3	HAL Compiler and Language--Final Report, Volume 1: Development of an MSC Language and Compiler	Jun. 1971
	4	HAL Compiler and Language--Final Report, Volume 2:	Jun. 1971

	5	A Guide to the HAL Programming Language	
		Programmed Guidance Equations for Skylark Command Module, Earth Orbital Program, Folder 1/3	Feb. 14, 1972
	6	Programmed Guidance Equations for Skylark Command Module, Earth Orbital Program, Folder 2/3	Feb. 14, 1972
	7	Programmed Guidance Equations for Skylark Command Module, Earth Orbital Program, Folder 3/3	Feb. 14, 1972
	8	Apollo Guidance and Navigation Control	Apr. 1972
4	1	Requirements and Architecture of the Space Shuttle Flight Computer Operating System (FCOs) Intermetrics	Jul. 19, 1973
	2	Higher Order Software Requirements	Aug. 1973
	3	STS Avionics-HAL/FCOS/SDL ICDS	c. 1974
	4	Principles of Higher Order Software Illustrated by Application to a Space Shuttle Prototype Program	Feb. 1974
	5	Design of the Software Executive Phase IIA Digital Fly-by-Wire Project Initial System	Mar. 1, 1974
	6	GPC Software Structure Evaluation Team Report	Jul. 15, 1974
	7	STS Avionics—HAL/S-FC PDR, HAL/S-C, Folder 1/3	Mar. 1974-Jul. 1975
	8	STS Avionics—HAL/S-FC PDR, HAL/S-C, Folder 2/3	Mar. 1974-Jul. 1975
5	1	STS Avionics—HAL/S-FC PDR, HAL/S-C, Folder 3/3	Mar. 1974-Jul. 1975
	2	AP-101 Linkage Editor Audit Report—Space Shuttle Orbiter Avionics Software	Feb. 13, 1996
	3	HAL/S Programmer's Guide—Part 1	Jun. 11, 1976
	4	HAL/S Programmer's Guide—Part 2	Jun. 11, 1976
	5	Higher Order Software, Inc.—Technical Report #5: The Manager as an Abstract Systems Engineer	Jun. 1977
	6	Programming in HAL/S	Sept. 1978
6	1	Introduction to HAL/S	Oct. 1978
	2	Space Shuttle Program, Orbiter Project—Computer Development Specifications: Volume 1, Book 7	Nov. 27, 1978
	3	Space Shuttle—SPF Loading-IBM	Jun. 4, 1979-Jun. 13, 1980
	4	Analysis of Software Production Facility (SPF) Predicted Resource Requirements	Mar. 1980
	5	HAL/S 360 User's Manual IR-360-2	May 1, 1980
	6	HAL/S Language Specification Version IR-542, Folder 1/2	Sept. 1980
7	1	HAL/S Language Specification Version IR-542, Folder 2/2	Sept. 1980
	2	STS-1 Technical Crew Debriefing	Apr. 1981
	3	STS-1 Orbiter Mission Report	Jun. 1981
	4	HAL/S Flight Computer User's Manual	c. 1981
	5	"The 'Bug' Heard Round the World"—Discussions of the Software Problem That Delayed the First Shuttle Orbital Flight by John R. Garman, Deputy Chief, Spacecraft Software Division	1981,1983
	6	Space Transportation and Ground Control Systems: The IBM Role	Jun. 1982