



Guide to the Ronald Kocol Papers, 1977-2003 — 122.4671

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Description is written in: English.

Describing Archives: A Content Standard

Brian Sutton-Smith Library and Archives of Play at The Strong

The Strong

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Summary Information

Repository:	Brian Sutton-Smith Library and Archives of Play at The Strong
Creator:	Kocol, Ronald
Creator:	Williams Electronics Games, Inc.
Title:	Ronald Kocol papers
ID:	122.4671
ID [aspace_uri]:	/repositories/3/resources/340
Date [inclusive]:	1977-2003
Date [bulk]:	bulk 1984-1986
Physical Description:	6.25 Linear Feet (1 half record carton, 1 flat box, 2 oversized folders)
Language of the Material:	English
Mixed Materials [box]:	1-2
Mixed Materials [folder]:	OS1-OS2
Abstract:	This collection consists of documents created by Ronald Kocol, Williams Electronics Test Engineer. The materials are dated from 1977 to 2003, with the bulk of the materials dated from 1984 to 1986. The papers are comprised of engineering logs, diagrams, schematics, program test printouts, reference materials, and more.

Preferred Citation for Publication

Ronald Kocol papers, Brian Sutton-Smith Library and Archives of Play at The Strong.

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Biographical Note

Ronald Kocol is a retired test engineer. Kocol began his career in 1972 as an Associate Test Engineer for Motorola Consumer Electronics developing test equipment for television receivers and microwave ovens. Kocol left Motorola in 1979 when he moved to Williams Electronics. At Williams Electronics Kocol developed test equipment for pinball assemblies and PC boards until leaving in 1984. Kocol was also a test engineer at Gen Rad, Scientific Games, and IGM Solutions where he designed, built, and programmed production support test equipment. He retired in March 2020.

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Collection Scope and Content Note

This collection documents Ronald Kocol's career as a Test Engineer. The materials date from 1977 to 2003, with the bulk of the materials dated from 1984 to 1986. The papers are comprised of schematics, lab notebooks, reference materials, program test printouts, and other documentation.

The majority of the papers are schematics, drawings, and program test printouts from Kocol's time at Williams Manufacturing. Some of the pieces represented in the collection are the Video Power Pack, 8 Pair OPTO, A-20580 coin door, a PC based cable, and more. The papers also contain two of Kocol's engineering log books. One logbook contains information about optical and analog joysticks, and a "super clock." The reference materials in the papers consist of articles, chapters, reference guides, handwritten notes, technical packets, and more about microcomputer devices, board testing, GRNET, program configurations, relay boards, modems, etc.

The papers have been divided into two series. The materials are physically housed in one half record carton, one oversized flat box, and two oversized folders. Additional scope and content information can be found in the Series Scope and Content Notes.

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System of Arrangement

Series I: Engineering documents, 1977-2003

Series II: Reference materials, 1978-2003

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Administrative Information

Publication Statement

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Conditions Governing Access

This collection is open for research use by staff of The Strong and users of its library and archives.

Immediate Source of Acquisition

The papers were donated to The Strong in September 2022 as a gift of Ron Kocol, Test Engineer. The papers were accessioned by The Strong under object ID 122.4671 along with prototypes, keyboard modules, boards, software development kits, books, and more.

Processed by

Stephanie Ball, March 2025.

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Controlled Access Headings

- Williams Electronics, Inc.
- Schematics
- Circuit Schematics
- Engineering design
- Pinball machines
- Pinball machines--Drawings

Collection Inventory

Series I: Engineering documents, 1977-2003

ID [aspace_uri]: /repositories/3/archival_objects/53790

Series Scope and Content Note

This series consist of schematics, mechanical drawings, notes, test program printouts, and proposals created by Ron Kocol throughout his Test Engineering career. The materials are for a power supply H.V., video power pack, coin slots, Pinball 2000, PC based cable, coin hopper, and an 8 pair OPTO. Of note are the two engineering notebooks maintained by Kocol. The notebooks contain information about analog and optical joysticks. The bulk of the materials are dated from 1984 to 1986.

box 1-2

folder OS1-
OS2

Title/Description	Instances	
"Archive floppies" [4 8" diskettes], 1977-1986 ID [aspace_uri]: /repositories/3/archival_objects/53794	box 1	object 3
8 pair OPTO tester schematic, mechanical drawing, and notes, 1992 ID [aspace_uri]: /repositories/3/archival_objects/53795	box 2	folder 1
Auto.TSK notes, instructions, and diskette [1 8" diskette], 1987 ID [aspace_uri]: /repositories/3/archival_objects/53796	box 2	folder 2
Bluebird slot coin hopper schematic, 2003 ID [aspace_uri]: /repositories/3/archival_objects/53797	box 2	folder 3
"C" test programs notes, tests, and setups, undated ID [aspace_uri]: /repositories/3/archival_objects/53798	box 2	folder 4
Coin door test schematics, 1996	folder OS1	

ID [aspace_uri]: /repositories/3/archival_objects/53835		
Engineering notebook, undated ID [aspace_uri]: /repositories/3/archival_objects/53799	box 2	folder 5
Engineering notebook, undated ID [aspace_uri]: /repositories/3/archival_objects/53800	box 2	folder 6
Multiplexer connection pins diagram and readings [blank], undated ID [aspace_uri]: /repositories/3/archival_objects/53801	box 2	folder 7
PC based cable tester notes, drawings, datasheets, and articles, 1997-1998 ID [aspace_uri]: /repositories/3/archival_objects/53802	box 2	folder 8
PC based cable tester programs, wire charts, notes, proposal, 1999 ID [aspace_uri]: /repositories/3/archival_objects/53803	box 2	folder 9
PC based cable tester schematics, 1999 ID [aspace_uri]: /repositories/3/archival_objects/53804	box 2	folder 10
Pinball 2000 schematic manual, 1999 February ID [aspace_uri]: /repositories/3/archival_objects/53792	box 1	object 1
Power supply HV test program, 1986 ID [aspace_uri]: /repositories/3/archival_objects/53805	box 2	folder 11
Video Power Pack mechanical drawings, 1996, 1998 ID [aspace_uri]: /repositories/3/archival_objects/53806	box 2	folder 12
Video Power Pack pin assignments and notes, 1998 ID [aspace_uri]: /repositories/3/archival_objects/53807	box 2	folder 13
Video Power Pack schematics, 1987, 1998 ID [aspace_uri]: /repositories/3/archival_objects/53834	folder OS2	
WPC-95 schematic manual, 1996 March ID [aspace_uri]: /repositories/3/archival_objects/53793	box 1	object 2

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Series II: Reference, 1978-2003

box 2

ID [aspace_uri]: /repositories/3/archival_objects/53791

Series Scope and Content Note

This series contain articles, technical descriptions, reference guides, instructions, newsletters, vendor catalogs, and more. Of note is folder 38 that consists

of Williams Manufacturing memos and benefits information. The folder titled miscellaneous contains handwritten notes of Kocols related to tests and testing procedures.

Title/Description	Instances	
80C51 core instruction quick reference, 1995 ID [aspace uri]: /repositories/3/archival_objects/53808	box 2	folder 14
227X release 8.1 software sales package, 1986 ID [aspace uri]: /repositories/3/archival_objects/53809	box 2	folder 15
2276 Technical description, 1984 May ID [aspace uri]: /repositories/3/archival_objects/53810	box 2	folder 16
"Checking Parity", undated ID [aspace uri]: /repositories/3/archival_objects/53811	box 2	folder 17
Course materials, 1986, undated ID [aspace uri]: /repositories/3/archival_objects/53812	box 2	folder 18
DBO product description, undated ID [aspace uri]: /repositories/3/archival_objects/53813	box 2	folder 19
"Driver ICs Interface uPs with Vacuum Fluorescent Displays", undated ID [aspace uri]: /repositories/3/archival_objects/53814	box 2	folder 20
Fairchild Preliminary Datasheet, 1978 June ID [aspace uri]: /repositories/3/archival_objects/53815	box 2	folder 21
Gen Rad 2272 Board testing, 1983 ID [aspace uri]: /repositories/3/archival_objects/53816	box 2	folder 22
Gen Rad users group notes, undated ID [aspace uri]: /repositories/3/archival_objects/53817	box 2	folder 23
GRNET instructions, undated ID [aspace uri]: /repositories/3/archival_objects/53818	box 2	folder 24
"Increasing Test Coverage of Oscillator Driven Circuits", 1986 ID [aspace uri]: /repositories/3/archival_objects/53819	box 2	folder 25
In-house training articles and notes, 1984-1986 ID [aspace uri]: /repositories/3/archival_objects/53820	box 2	folder 26-27
Intel Programmable Communication Interface, undated ID [aspace uri]: /repositories/3/archival_objects/53821	box 2	folder 28
Library listings, 1985, undated	box 2	folder 29

ID [aspace_uri]: /repositories/3/archival_objects/53822		
MK3870 series microcomputer testing, undated ID [aspace_uri]: /repositories/3/archival_objects/53823	box 2	folder 30
Newsletters and articles, 1984-1986 ID [aspace_uri]: /repositories/3/archival_objects/53824	box 2	folder 31
Periodical covers, 2000-2001 ID [aspace_uri]: /repositories/3/archival_objects/53825	box 2	folder 32
Sales - Vendor catalogs, undated ID [aspace_uri]: /repositories/3/archival_objects/53826	box 2	folder 33
"Some Memory Mapped Peripherals", undated ID [aspace_uri]: /repositories/3/archival_objects/53827	box 2	folder 34
Speed Plus statement, application note, and product description, 1984 ID [aspace_uri]: /repositories/3/archival_objects/53828	box 2	folder 35
Technical Assistance Center tips, 1986 ID [aspace_uri]: /repositories/3/archival_objects/53829	box 2	folder 36
"Technical Assistance Center: What is it?", undated ID [aspace_uri]: /repositories/3/archival_objects/53830	box 2	folder 37
WMS Gaming benefits forms and memos, 2003 ID [aspace_uri]: /repositories/3/archival_objects/53831	box 2	folder 38
Voodoo 3 software and install guide, 1999 ID [aspace_uri]: /repositories/3/archival_objects/53832	box 2	folder 39
Miscellaneous notes, circa 1986 ID [aspace_uri]: /repositories/3/archival_objects/53833	box 2	folder 40

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