

Reports of James Brakefield

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Date	For mat	Topic	Aut hor	Nature	Where	Web Link	locac tion	Title	Comments	Abstract
2/21/2023	pptx	FPGA ed	JCB	info	C16	https://events.vtools.ieee.org/m/345505	Web page	Progress report and Education Review and update on FPGA Boot Camp grant	Abbreviated slides, full slides at github	A look at more advanced FPGA education: boards, tools and research. Slide deck includes link to \$20 FPGA Kit sildes
1/27/2023	pptx	FPGA	JCB	report		https://github.com/jimbrake/20-dollar-FPGA-kit	Git hub	A \$20 FPGA kit	Pictures of each component on the web page	One of the goals of the FPGA Boot Camp grant was a lowest cost FPGA kit. Using a \$14 FPGA board from China it is possible.
3/7/2016	ISE proj	uP Arch	JCB	report	open cores	https://opencores.org/projects/rois	Git hub	Register Oriented Instruction Sets.	rois24_24min.zip /jimbrake/ISA-Exploratorium/tree/ROIS24_24	architectural exploration with a goal of a high performance FPGA soft core processor
2/22/2014	pdf, xlsx	soft uP	JCB	spread sheet	open cores	https://opencores.org/projects/up_core_list/	Web page	An inventory of soft processor cores. Processor project at www.opencores.org	https://github.com/jimbrake/cpu_soft_cores	An Inventory of mostly open-source Soft Core Processors. Although many have FPGA stats, many do not. Very large spreadsheet
4/8/2005	ISE	uP Arch	JCB	report	open cores	https://opencores.org/projects/lem1_9min	Web page	Logic Emulation Machine Processor project at www.opencores.org & github.com/jimbrake/lem1_9min	Four new variants of LEM1_9 are now implemented:	Small soft core processors that operate on a single bit (or four bits) of data at a time. Can be used for logic simulation, software interrupt handlers, low resource soft-core processing and BCD calculators.
8/1/1988	scan pdf	Laser Lab	Zuchlich etal	report	DTIC	https://apps.dtic.mil/sti/citations/ADA200528	Web page	Research on the ocular effects of laser radiation: executive summary, SAM-TP-88-8, Sep 88.	Zuchlich, J.A., R.D. Glickman, D.C. Varner, W.D. Kosnik, J.C. Brakefield	evaluate the bioeffects of laser radiation in order to quantify threats, primarily losses of visual function transient or permanent
3/1/1979	scan pdf	Laser Lab	Zuchlich etal	report	DTIC	https://apps.dtic.mil/sti/citations/ADA068022	Web page	Research on the ocular effects of laser radiation	Zuchlich, J.A., G.A. Greiss, J.M. Harrison, and J.C. Brakefield	ELECTRONICS AND SOFTWARE FOR THE VISUAL STIMULUS LAB
			Zuchlich etal	report				1984. Effects of laser radiation on the eye: vol. IV. Technology Incorporated, Final Report, Contract F33615-80-C-0610, USAF School of Aerospace Medicine, SAM-TR-85-13.	Zuchlich, J.A., R.D. Glickman, F.H. Previc, A.R. Menendez, J.C. Brakefield, M.F. Blankenstein, P.V. Garcia, A.J. Catalano, W.R. Elliott, & D.J. Coffey	
			Zuchlich etal	report				1984. Effects of laser radiation on the eye: vol. V. Technology Incorporated, Executive Summary, Contract F33615-80-C-0610, USAF School of Aerospace Medicine, SAM-TR-85-53.	Zuchlich, J.A., R.D. Glickman, F.H. Previc, A.R. Menendez, and J.C. Brakefield	
	scan pdf		Zuchlich etal	report				1983. Effects of laser radiation on the eye: vol. III. Technology Incorporated, Third Annual Report, Contract F33615-80-C-0610, USAF School of Aerospace Medicine, SAM-TR-85-12.	Zuchlich, J.A., R.D. Glickman, F.H. Previc, J.C. Brakefield, M.F. Blankenstein, and P.V. Garcia	
	scan pdf		Zuchlich etal	report				1982. Effects of laser radiation on the eye: vol. II. Technology Incorporated, Second Annual Report, Contract F33615-80-C-0610, USAF School of Aerospace Medicine, SAM-TR-84-10.	Zuchlich, J.A., R.D. Glickman, F.H. Previc, J.C. Brakefield, M.F. Blankenstein, D.L. Schafer, and J. Chambers	
	scan pdf		Zuchlich etal	report				1981. Effects of laser radiation on the eye: vol. I. Technology Incorporated, First Annual Report, Contract F33615-80-C-0610, USAF School of Aerospace Medicine, SAM-TR-83-6.	Zuchlich, J.A., R.D. Glickman, R.L. Klingman, G.A. Greiss, J.C. Brakefield, M.C. Thew, and D.L. Schafer	
	scan pdf		Zuchlich etal	report				1980. Research on the ocular effects of laser radiation. Technology Incorporated, Final Report, Contract F33615-77-C-0615, USAF School of Aerospace Medicine, SAM-TR-82-4.	Zuchlich, J.A., G.A. Greiss, J.M. Harrison, and J.C. Brakefield	
	scan pdf		Zuchlich etal	report				1979. Research on the ocular effects of laser radiation. Technology Incorporated, Second Annual Report, Contract F33615-77-C-0615, USAF School of Aerospace Medicine.	Zuchlich, J.A., G.A. Greiss, J.M. Harrison, and J.C. Brakefield	
4/1/1978	scan pdf		Zuchlich etal	report	DTIC	https://apps.dtic.mil/sti/citations/ADA068022	Web page	1978. Research on the ocular effects of laser radiation. Technology Incorporated, Annual Report, Contract F33615-77-C-0615, USAF School of Aerospace Medicine.	Zuchlich, J.A., G.A. Greiss, J.M. Harrison, and J.C. Brakefield	

Column B Date presentation date or publication date
Column C Format powerpoint, PDF, txt, scanned pdf, docx, doc, xlsx, xilinx ISE project
Column D Topic one or two words
Column E Author JCB: James C. Brakefield, others as listed in comments

Column F	Nature	info (STEM level presentation), course, paper, patent, report
Column G	Where	Where presented, often IEEE Lonestar section at LMAG or Computer chapter
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