his is an exploratory work, and I am not responsible for anything anyone does as a result of reading or using e information referenced here. Readers must use their own best judgment in duplicating or depending upon ny of the projects or concepts included in this collection.				
#	Rev Title	Comment		
	controlled by political and e need. Create a sustainable off gri property) as an oasis of free	rces of shelter, water, food and energy are less conomic extremes. These can also help others in id infrastructure in your own backyard (or other edom. These types of technologies can empower of refugees to thrive in chaotic times.		
	STRUCTURES			
01010	Any-stick dome	A dome from junk		
01020	Durable covering cheap, dura			
01040	Bolt-together frames	Basics of building and covering bolt-together frames		
01045	Dome windows	External lighting and views for fabric covered structures		
01050	Dome, 10' diameter on posts	This one used for bathing at an off grid encampment		
01080	Dome, 16'8" diameter 210 sq			
01330	Parabolic, 28' 14' high, 615 sq.			
01300	Low profile domes 24 ft dia.,	450 sq.ft; height=radius/2		
01210	Dome Worksheet	Add radius and chord factors to calculate any size dome		
01375	Wired tubes Minimum tooling	Build structures out of tube & wire with hacksaw & pliers		
	Wire structures	contents		
01510	7'6" wire shelter frame ht.=rad	d./2 Dome frame weighs 8.5 lbs. Complete frame=24 lbs.		
)1520	The Cozy 7-1/2 diameter shelte	r Includes a stove built into the floor		
01630	Oval wire dome, 10x20x2.5	A complex disaster – but an interesting story (carport)		
	Other shapes			
01660	Hyperboloid	A tubular structure with a gracefully varying diameter		
01690	Hyperbolic paraboloid	A strong and graceful roof structure		
)1700	Trihyperbolicparaboloid	Hexagonal roof form supported on three posts		
)1810	Decks from scraps	Use short pieces of recycled material to span large areas		
01830	Hex8: Wooden structure	Hexagonal office space with sleeping loft, 8 ft. diameter		
)1840	Hex12 Wooden structure	Hexagonal building with upstairs desk, 12' diameter		
01900	Earth materials	A few more tips on what not to try		
	WATER			
02010	<u>Water intro</u>	Critical things to keep in mind concerning this need		
)2040	<u>A 30 gallon tank</u>	A clean trash can can be an economical tank'		
)2100	Stills	One means of purifying water		
)2110	Distilling sea water (theory)	Wave & tide energy assist water pumping and distillation		
)2120	Well pumps	Some of my semi-successful DIY attempts		
)2130	Cistern pump	Creative improvements applied in a developing nation		
)2140	Atmospheric pump graphic	Uses thermal energy to pump water in 15.7gal tank		
)2160	Cistern under garden (theo			
)2170	Wells	Boring shallow wells from commonly available hardware		
03010	FOOD			
03230	High density garden	Gardening techniques that can multiply productivity		

03050	Water saving gardens	Build a remote garden supplied by water that can be hauled
03080	One Day Garden Sustainable food	Don't hoard; plant a small garden each day
03040	Trench format garden	Facilitate mechanization of a captive water table garden
03051	Quanset frost cover	Simple cold weather protection
03250	Compost Comfort Lazy & efficient	Keep the nutrients of fall leaves in your own soil
00200		
04010	Lighting	How light is used greatly affects the amount needed
04030	Electrical	There are more ways to do this than most realize
	ENERGY – FIRE	
05005	Keeping warm	Structure features that can reduce the energy needed
05030	Using wood stoves	Important installation considerations
05040	Basic stove	Cheap to build, highly efficient, eco-friendly
05045	Dome flue exit Graphic	http://technosmith.com/contents/05045-dome flue exit.JPG
05050	The Dragon Under \$40 in 2022	A small, cheap high-efficiency wood stove
05060	Small boiler	Attached to "Dragon" to heat water and produce steam
05080	Stove with reflector	Great for heating patio area
05100	Retrofit wood stove	Efficient, clean, installed in existing fireplace
05110	Small forced air heater	Shroud a "Basic stove" and force air through it
05120	Prunings burner.pdf	Clean efficient disposal of orchard waste
05140	Rammed Earth Stove	Build from highly compressed earth with tiny % cement
05150	Cottage kiln	Wood fired production of art and utility objects
	COOKING	
05200	Why a cook stove out of mud	Fuel efficient, smokeless solution to primitive kitchens
05210	Small stove carved into the earth	"little mud"
05225	Backyard stove	Cook outdoors during the summer
05230	StoveTopOven	Invented to cook a girlfriend's birthday cake
05240	Cook stove from a scrap of pipe	You can't make an efficient stove more easily than this
05250	Cardboard cooker solar power	An easy and cheap way to "crock pot" anything
	SOLAR +	
05300	Introduction to solar	There are more options in solar than most realize
05340	<u>SolarHeatedAir</u>	Greatly increase efficiency of solar heated air
05350	Solar Hot Water	Economical way to heat your above ground pool
05360	Heliostat	A high-tech device with many possibilities
05380	Wind	Generally inconsistent and seasonal, but great in places
	MANIPULATING ENERGY	
05410	The Energy Tree	Opportunities and pitfalls
05415	Perpetual motion of fools	Fun projects for those who love to fail
05420	Reality for the masses	If you have dumb friends, this helps you recognize them
05430	StoringEnergy	There are more ways to do this than you might think
05450	Pumping heat	Using mechanical energy you can make hot or cold
05470	Energy systems	Managing of energy sources, storage, and conversion
05480	Heat powered engines	Converting thermal energy into mechanical energy
	See 05060-Small Boiler	Attachment to dragon for heating water or making steam
05500	Steam engine 3 moving parts	I made this public domain so no one could patent it
05510	Stirling	World's most efficient engine was invented by a minister
05520	Check Valve Power	Concept engine – also intentionally in the public domain
05525	Stirling data table	Calculates available outputs under various conditions

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13060 13061	The Outlaw Universe Introduction to Christianity	The physical universe has a message for us Basic understandings that unite all Christians
12060	OUTLAW UNIVERSE	The physical universe has a massage for us
13090	American Preppers	A history of American Prepper mentality
13030	News Media	How to analyze news media bias
13020	Prove Me Wrong (quantum physics)	Reconsidering theories about gravity and light
	ESSAYS and OPINIONS	
12012	<u>Small display maze</u>	26 panels, 20 x 21 feet
12010	Hexagon display maze	49 panels, 30x22.7 feet of creative display maze
12530	Homeless action items	power point presentation
11510	<u>Changes</u> – graphic	
	PRESENTATIONS	
11530	Liability form – initial draft	This is only a draft; has not been reviewed by a lawyer
12560	Starter Camp (infrastructure)	
11030	Context of ministry	Living a life that makes sense
11020	How to sleep in your garden	
11010	Portable cottage	Montana de oro
13040	<u>The Jesus Camp</u>	technosmith.com/contents/13040-jesus camp.pdf
	LIFESTYLES	
10010	Enterprise	
09050	stepper motor from alternator	I needed to computer-control something in small steps
09040	Starting car with a weak battery	Answer to a desperate need one stranded freezing morning
09030	Petro chemical replacement	Introduction to a science to reduce need of petroleum
09020	Splitting rocks	Not everyone needs this – but I did, so here it is
09010	home sheetmetal basics	Simple techniques to equip you to solve many problems
	MORE	
08110	Low tech composting toilet	A clean and simple solution to a need we all have
08070	Off Grid Toilets	A radical sanitation improvement over existing practices
08050	<u>8" auger</u>	Use for toilet pit or well
08040	<u>6" auger</u>	Use for well or toilet pit
08020	Bath pan	Cheap, lightweight, answer to bathing, or laundry
	HEALTH	
6060	Bike in Berkeley video – .avi	My friends in Berkeley couldn't figure it out either
06050	Compact bike graphic	For awhile I had a \$100 bounty on the first one to ride it.
06040	Folding bike graphic	Needed a compact bike to store under my desk at work
06030	MobileHomeless	Made for a homeless friend who lived in it for 5 years
06010	Recycling cart	A stronger, larger and legal alternative to grocery carts
06000	TRANSPORTATION	Avoiding petroleum and expenses relating to cars
05660	The Cool Earth	http://technosmith.com/contents/05660-cool%20earth.pdf
05650	<u>lce chest air</u>	Forced air cooling invented during an emergency
05630	Storing cool	More refrigeration basics
05620	Linked Stirling	Yet another way to pump heat
05600	Refrigeration	Various ways to cool things
05560	Jet engine in my house	Another don't anyone (else) try this at home story
05540	Odd engines	Creative applications from simple physics

13062	God's kingdom (Until Pentecost)	The culture that quietly inherits all
13065	The Rogue Empire	The Defeat Of The Dragon (The final 3-1/2 years)
10000		
13100	Candor	An off-grid adventure novel – Free read and download
13120	Poetry that happened	
13200	Approaching Final Days	
13210	Event Matrix .pdf format	A spreadsheet relating end-times subjects to Bible references
13210	End Times Subjects	A spreadsheet relating end-times subjects to bible references
	Revelation Commentary	Develotion, as evaluated only by other verses in this work
13150		Revelation, as explained only by other verses in this work
13330	Revelation 12	http://technosmith.com/contents/13330-rev12.pdf
13130	A Modern Bible Translation (ASV)	A free download of the entire Bible in public domain
12420		
13420	Adventures Have you ever?	
	Boo	ks In Print
_	Expetripton of Dabular	
	Expatriates of Babylon Sample, first five pages	Part one of a fiction trilogy. A resourceful individual winds
	Purchase link	up homeless following a layoff. He develops a new quality
13530 +	Expatriates of Babylon	of life for street survival and interfacing with society.
	Arland	Part two of trilogy; Modified biosphere technology begins to
	Sample, first seven pages	grow locally sustainable communities in Arizona deserts.
	Purchase link	
13540	<u>Arland</u>	
	The Livewood	Part three of trilogy. A rebellious student finds his path in a
	Sample, first eleven pages	project to develop space colonies. This one starts in New
40550	Purchase link	Mexico, but eventually gets off the ground.
13550	The Livewood	
	Surviving the Streets an Future Purchase link	This is a hard copy compendium of the technical section of
	Surviving the Streets and Future:	my web page. Most of its projects and many more are available for free at technosmith.com
	-	
	Journeys of the Heart	Nonfiction poetry that is born of real life experiences. This
	Purchase link	is followed by a series of true stories of adventures that
	Journeys of the Heart:	inspired the poetry.
	Avoiding Deception	Exposes corruption in the early church and today, as
	Purchase link	revealed by the Bible.
	Avoiding Deception	
		http://www.lulu.com/shop/william-huff/expatriates-of-babylon/paperback/product-22307591.html
		https://www.lulu.com/shop/william-huff/arland/paperback/product-23471631.html
		https://www.lulu.com/shop/william-huff/the-livewood/paperback/product-22558115.html
80000		
		b books in print
	the Streets and Future: This is a hard nee most of its contents are available a	copy compendium of the technical section of my web at technosmith.com
		tudent finds his path in a project to develop space colonies.
	tarts in New Mexico, but eventually gets of	
		arly church and today, as revealed by the Bible.
<u>Avoiding l</u>	Deception. Exposes comuption in the ed	ing church and today, as revealed by the bible.

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