# "That House"



#### Decorating anecdotes for newbies and the not so newbie

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#### **Disclaimer:**

Presenter can in no way be held accountable or responsible for any behavior, however odd or foolish, lack of discretionary spending, sleepless nights, funny patches of hair falling out, graying, neighbors making a call to the "funny farm", spontaneous yard overhauls, incessant humming of Christmas Carols, year round, the kids telling friends to "pay no attention, he's just my dad, and yes, that is Christmas Stuff, he is working on in (pick any month)" etc.....

#### Ye be warned...... It is a very slippery slope that stands before you!

#### Who am I?

- Mark Zembruski Zman on all Christmas Forums
  - Decorating since I was 20
  - Self admitted gadget geek, weekend warrior, learner of all trades, mastering NONE of them.....
  - Decided to start growing in 2003, getting **BIG** just happened
  - Approx 125,000 Lights
  - Approx **530**+ channels of AC Light Animation
  - 9600 Channels of **RGB** Pixel Animation
  - One traditional DMX Universe, 32 E1.31 Universes
  - Known for using just about every decorating feature available and blending it together tastefully
  - Generally I do nothing "original" in my display, I enhance what I steal, er, borrow.....
  - Ah... YAWN! OK.....
  - My one claim to fame in our community that most do not know:
    - I originated the tag line. "I have the **C.L.A.P.**, do you?"
      - Christmas Light Addition Problem
  - One of the central organizers of **C.L.A.P**. in the PacNW, regional decorating gathering
    - Christmas Light Addiction Program, for those with C.L.A.P.!

#### Agenda

- • Decisions
  - Logistics
  - Decorations
  - Technology
  - Execution
  - Advice (take it for what it's worth)
  - Miscellaneous
  - Challenge

Decisions! Decisions! Decisions!

#### Decisions

- Starting out there are some decisions that should be reviewed
  - What is your motivation for doing a Christmas display?
    - Why do I want to do this?
      - *"That House"* in your 'hood? A YouTube video, family motives, community or church etc...
    - How involved do you want to get? The Pig or the Chicken?
      - Depending, this could have an impact on everything in your life.
      - Do you want to just put up lights at the Holidays, or:
      - Do you want a new hobby / lifestyle
    - What's my Budget??
      - Time!!! It will really become the *critical factor*
      - Money It's the reality of everything we do in life

#### • Small or **BIG**!?

- Start where you are comfortable the rest will happen
- You will figure it out better and enjoy it more
- DO NOT be known as a "One Hit Wonder!"
- Your approach *should* be thought of as a marathon, not a sprint

#### Decisions

- Off the Shelf? of Do It Yourself (DIY)
  - Buy vs home made
  - Are you crafty, or handy with tools, open to learning?
  - Or a combination of the 2
  - Your budget can influence a trade-off
- Static vs Animation
  - What the heck does this mean!?
  - Static; Traditionally most Decorators start(ed) here
    - Props, LIGHTS!, Gadgets and Gizmo's
      - Store bought, borrowed, Custom Made
  - Animated; Trend That Drive Many to Hobby
    - Dancing Lights , typically to music
    - <u>Carson Williams</u> Miller Lite Commercial circa 2005 (BC/AC)
- Theme / Message / Color Scheme
- Collect for a Charity
  - Food drive, monetary

# Decisions.... CHECK! Now what do I do?.... LOGISTICS!

#### Planning

- Budget **\$\$\$** 
  - Determine what you are comfortable spending
  - Do your homework to make frugal purchases
  - Keep some in reserve for last minute gotcha's
  - Be classy, never reveal what you think you spent, even when asked
- Display Layout
  - Pencil/Paper
  - <u>Excel Spread Sheet</u>

- <u>Computer Drawing Programs</u>
- <u>Microsoft One Note</u>
- Devise a yearly plan and STICK to it!
  - It will be hard to resist temptation changes have ripple effects
  - It will be less stressful
  - Start planning for next year, while you are still in the current year
    - Capture notes all season long and organize them into categories, ex.
      - What Worked/Didn't New Additions Fix It etc..
- Budget Time
  - No matter what you think you need to accomplish, a specific project or set up, give yourself at least **DOUBLE** what you figured



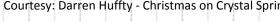
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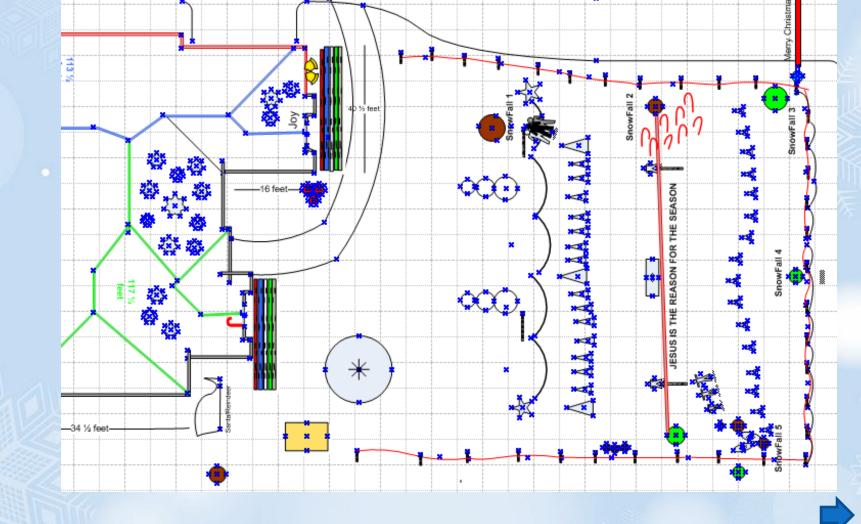


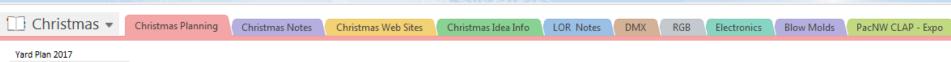
Courtesy: Darren Huffty - Christmas on Crystal Springs



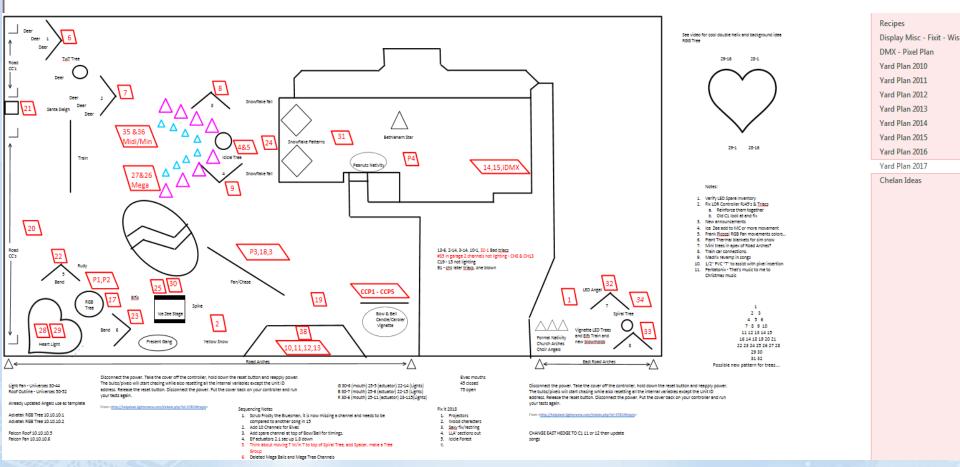


SAMPLE LAYOUT





Friday, January 15, 2010 5:19 PM



#### Spreadsheet to manage light inventory and power consumption

				Liz	ht I	nvo	aton																						
Light Invento							nory						-																
	Bulb/Light List	WATTS / Amps	Power Type	ltem Type	Bulbs per string	Volts AC/D C	Watts per Bulb	Watts per string	AMPs per light	AMPs per String	r	Fee Per Strip		2															
14					<b>,</b>	1						- stri																	
15	Inflatable Igloo	52.0000	WATTS	Unit	1	120	52.0 Watts	52 Watts	.4333 Amps	0.433																			
16	Inflatable Santa	80.0000	WATTS	Unit	1	120	80.0 Watts	80 Watts	.6667 Amps	0.667																			
17																													
18	Flash House	0.7900	AMPS	String	240	120	.385 Watts	95 Watts	.0033 Amps	0.790																			
19	Flash Sit	0.7500	AMPS	String	250	120	.36 Watts	30 Watts	.003 Amps	0.750																			
20	Flash Run	0.7500	AMPS	String	250	120	.36 Watts	30 Watts	.003 Amps	0.750																			
21	Chauvet 200Bs	0.2300	AMPS	Unit	1	120	27.6 Watts	28 Watts	.23 Amps	0.230																			
22	Roof Snoflakes LED Rope	0.0900	AMPS	Unit	1	120	10.8 Watts	11 Watts	.03 Amps	0.090																			
23	Flood - Small Costco LED	0.0500	AMPS	Bulb	1	120	6.0 Watts	6 Watts	.05 Amps	0.050																			
24	Flood - Large Costco LED	0.0300	AMPS	Bulb	1	120	10.8 Watts	11 Watts	.09 Amps	0.030																			
25	MS ODU ED 100	0.0600	44400	Only	100	100	070 545 5	7.5.5.5	0006 4-	0.000																			
26	M6 CDI LED 100	0.0600	AMPS	String	100	120	.072 Watts	7 Watts	.0006 Amps	0.060		34																	
27 28	Candy Cane Wire Frame	0.5800	AMPS AMPS	String	150	120	.464 Watts FALSE	70 Watts FALSE	.0039 Amps FALSE	0.580		17																	
28	M5 HL Replaceable LED C6 CDI LED 100	0.0600	AMPS	String	100	120	.072 Watts	7 Watts	FALSE .0006 Amps	FALSE 0.060		17																	
30	COCDILED 100	0.0600	AIVIPS	string	100	120	.012 Watts	1 wates				- 34																	
31	Mini 50	0.1960	AMPS	String	50	120		Warning Thresh	old (Yellow)	95%						Cor	strolle	r 1-25	Over	view									
32	Mini 35	0.1500	AMPS	String	35	120										0	iu one	a 1720	Over	1610							Cont	troller To	tals
33	LED Angel	0.0800	AMPS	String	250	120		Controller I	ocation N	Aodel <b>TOLTS</b>	AMPS	1	2	3		5		7		9 10	1	1 12	13	14	15	16	Amps	Bulbs	Watts
34	EED Aliger	0.0000	OMES	sung	2.50	120	Controller 1	West Yard - I	Viego Tree C1	IB16D.1 120	15	0.01	0.01	0.01	0.50				1.34			0.	84 0.7	5 0.5	4 0.39	,	4.391	4710	526.95
35	Costco Deer Down WF	1.3400	AMPS	String	350	120	.4 Controller 2			B16D.2 120	15	0.06	0.79	0.75	0.01	0.75	0.01	0.75	0.01	0.75 0.	01 (	.75 0.	01 0.0	6 0.0	5 0.20	0.20	5.172	2815	620.59
36	Costco Deer Up WF	1.3400	AMPS	String	350	120	4 Controller 3			B16D.3 120			0.60		0.57		0.51		2.20			.32 0.	38 0.0	0.0	8 0.08	0.08	4,978	8194	597.35
37	Old Deer Down WF	1.0100	AMPS	String	300	120						0.03	0.03		0.03	0.03	0.03		_	0.05 0.	_	0.05 0.	_	-			0.600	1680	72
38	Old Deer Up WF	1.4100	AMPS	String	280	120	.4 Controllor 4					0.03	0.03		0.03	0.03	0.03		_	0.10 0.	_	0.10 0.	_	_	_				10
39	Snowflake Fall	0.0900	AMPS	Unit	1	120	10 Controller 5			B16D.5 120	15		_						_	_	_	_	_	_		-	1.400	3920	168
40	Icicle Reinders LED	0.0250	AMPS	String	70	120	.0 Controller 6			B16D.6 120		0.02	0.02		0.02	0.02	0.02		_	0.02 0.	_	0.02 0.	_	_	_	1.01	1.382	1950	165.8
41							Controller 7			B16D.7 120	15	0.02	0.02		0.02	0.02	0.02		_	0.02 0.	_	0.02 0.	_	_	_	1 1.41	3.042	2030	365
42							Controller 8	<u>LLA</u> :	2 CT	B16D.8 120	15	0.02	0.02		0.02	0.02	0.02			0.02 0.	_	.02 0.	_	_			0.292	1400	35
43							Controller 9			120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02 0.0	2 0.0	2		0.292	1400	- 35
44	Zap Strobe	2.0000	AMPS	Unit	1	120	24(Controller 10	Boad A	tches	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02 0.0	2 0.0	2 0.02	0.02	0.333	1600	40
45	Yoke	3.0000	AMPS	Unit	1	120	360 Controller 11	Boad A	ches	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02	0.0	2 0.02	0.02	0.313	1600	40
46	DMX Balls	0.1000	AMPS	Unit	1	120	<sup>12</sup> Controller 12			120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02 0.0	2 0.0	2 0.02	0.02	0.333	1600	40
47							Controller 13			120		0.02	0.02		0.02	0.02	0.02		_	0.02 0.	_	.02 0.	_				0.333	1600	40
48	HLE leicles	0.0250	AMPS	String	70	120	.0 Controller 14			120		0.90	0.08		0.12	0.58	0.58		_	_		.28	0.0	_			6.214	3895	745.7
49												7.65	0.05		0.25	0.09	0.08		_	0.08 0.	_	.02 0.		_			9,383	4969	1127.25
50							Controller 15			120		0.02	0.05		0.25	0.09	0.08			_		0.02 0.0	_	_	_		0.313	1500	37.5
							ass Controller 16					0.02			0.02		0.02		_	_		_	_	_	_				
							[15] " <mark>Controller 17</mark>			120			0.01			0.07											0.891	1492	106.95
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							Controller 22	: <u>ILA</u>	i	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02 0.0	0.0	2		0.292	1400	35
							Controller 23	LLA	5	120	15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 0.	02 (	.02 0.	02 0.0	0.0	2	0.25	0.542	1405	65
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																									and an T		51.000	60667	6409.4

Display Totals 54.088 63667 6403.1

• Electricity

#### • BE SAFE!!!!

DANGER

NOT ONLY WILL THIS KILL YOU, IT WILL HURT THE WHOLE TIME YOU ARE DYING

- You will need to get comfortable with both AC & DC.
- House/Panel capacity (enough?)
- How will you access power outside
  - Extension cords
  - Temporary Sub Panels
  - Do NOT overload your Power Grid
- Know, and *pay attention* to wire capacity
- GFCI's (& AFCI's)
  - Protect you, guest, family & pets
  - Buy Quality Devices, you will have less issues
  - Understand how to effectively use them
- Fully understand the power requirement for every element you incorporate, keep track of this information

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#### Plans all done.... WHAT THE HECK DO I USE!??

What do I want to use?Inflatables





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- What do I want to use?
  - Inflatables
  - Blow Molds





- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes





- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts





- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts
  - Nativity



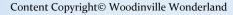
- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts
  - Nativity
  - Statuettes



- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts
  - Nativity
  - Statuettes
  - Animatronics







- What do I want to <u>use?</u>
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts
  - Nativity
  - Statuettes
  - Animatronics
  - Trees





- What do I want to use?
  - Inflatables
  - Blow Molds
  - Wireframes
  - Wood Cutouts
  - Nativity
  - Statuettes
  - Animatronics
  - Trees
  - Coro



• What do I want to use?

- Trees
- Coro
- Use your IMAGINATION!

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- Lights Lights LIGHTS!
  - The "Paint" for your Composition
    - **R G B** *W* **Y P G O A B Multi** etc.....
    - Singular or Combination
  - Incandescent or LEDs?
    - Traditional vs Trend
      - Each has their Pro's & Con's
- White or Green Wire
- Outdoor vs Indoor
  - So....., what's the difference between the 2?
    - Which side of the door you put them on!
    - Its all in how they are Marketed!

• Lights – Lights – LIGHTS!

- Traditional Bulbs
- M-C-G
  - Mini
  - Cone
  - Globe
- C= 8<sup>th</sup> of an inch
  - C7= 7/8<sup>th</sup> Dia
- G= mm
  - G12=12mm Dia





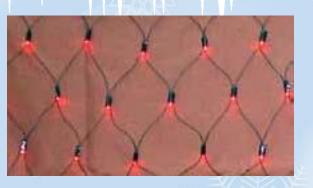


#### Mini / Fairy Lights



#### 5mm / Conical

# Lights – Lights – LIGHTS! Specialty Lights













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- Light Emitting Diodes LEDs (Facts & Fallacy)
  - Some love em', some hate em'
    - Brilliant non fading colors Some think they look cartoonish
    - More durable than incandescents
    - Multiple "White" colors
      - Cool/Pure White (Bluish hue) In your face!
      - Warm/Sun White (Yellowish hue, closest to incandescent)
        - Warm/Sun White may be inconsistent from vendor to vendor
    - Colors in general can have different hues from vendor to vendor and even year to year.....
    - LEDs don't behave like incandescent bulbs
      - Some Dim (fade), some Don't
      - Fades require planning (not linear)
    - Replaceable Retro C7/9 LEDs (screw in)
    - Smooth and Faceted globes

- Light Emitting Diodes LEDs (Facts & Fallacy)
  - Understand why you want to use LEDs
    - Cost more than incandescents
      - Different price depending on COLOR
    - 20,000 hours vs. 3000??
      - DC component by anatomy, that are modified for AC
      - Built in China with the cheapest parts possible
    - Return on Investment (ROI) is getting better
      - The LED typically does not fail, the components around it do
      - LEDs CAN be repaired BLUE fails the most
      - Buy quality, sealed units
      - Increase your display & not your electrical footprint
        - String of 100 "mini" -LED .047 Amps vs Incandescant .42 Amps
      - Plug WAY more in line Approx 50 vs 3 or 6 for commercial
      - LEDs do NOT generate heat
      - Full wave vs. Half wave
        - Full wave have less noticeable flicker

- Light Animation
  - 2-3-4 channel static controllers to blink elements
  - Mr. Christmas or equivalent
  - Computer Controlled Animation
    - Computer / Hardware / Software combination
    - Adequate Computer to build & control your Display or:
      - 2 computers, Tower (Build) Laptop (Show)
    - Lighting Controllers (AC & DC)
      - Makes your lights DANCE!
      - Plug & Play DIY options
      - Stand Alone (SD Card)
      - Microcomputers (Arduino Raspberry Pi Beagle Bone Black & Capes)
    - Programming Software
      - Sequence creation scheduling executing show
      - Freeware Vixen Xlights/Nutcracker HLS
      - \$-\$\$-\$\$\$ Light O Rama Animation Director Aurora Light Factory Madrix



- **RGB** Major shift to this technology
  - Ability to project any color you can imagine
    - Flexibility in color schemes
  - More advanced than AC animation
    - Requires more knowledge of electricity (DC) & networking
  - Pixels, Nodes, Strip, Modules (?!?)
  - Dumb DC Control (One channel per color **R-G-B**)
  - Intelligent Serial Peripheral Interface (SPI)
    - Special Controllers/Power/Communications
    - DMX and E.1.31 (DMX over Ethernet) Protocols
    - Added time for building and setup
  - Channel explosion
    - 3 channels per color per "light"/pixels
    - Added Programming
      - More compute power
      - Separate, dedicated network
  - Not cheaper than AC to implement





Things are coming together..... Now to GET MOVING!

### **Execution – Acquiring Display Item**

- Build your own
- Garage/Estate Sales
- Ebay
- Garbage/Scavenging

- Decorating Forums
- Online Vendors
- Craig's List
- Relatives

- Online

- After Christmas Sales
   All Stores
  - All Stores

- Forums -"One Hit Wonders"

- Pre-Season Sales (Jan April/May)
  - Online Vendors
- Directly from China......
  - There are vendors decorators use all the time with ease
- Generate a relationship with your Vendors
  - Store / Dept Manager

#### **Execution – Set up**

- When to start your Masterpiece
  - Needless to say, that Thanksgiving weekend thing might not be in the cards.....
  - Do you have family, friends or neighbor helpers......
  - High School, Scouts, Church Community Service Hours
- Take advantage of your House/Yard's natural features
  - Roof/Ridge/Gutter lines
  - Trees/Bushes
- Build to your plan/vision
  - Random Abstract or:
  - Vignettes Scenes Flow
- Viewing Angles & Lines
  - Consider from visitors' perspective
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- Windows
- Fences

#### **Execution – Intangibles**

- Neighbor and Community Relations
  - Do you have an HOA that you need to consult
- Impact to neighbors, you have to live with them 365
- Safety?
  - How will you keep a safe environment around your display
  - Keeping visitors our of your yard
- Security
  - Theft concerns? Alarms
  - Cameras
     After hours lights
- Potentially consider added insurance coverage
  - Umbrella policy riders

# Nuggets of Knowledge

#### Crawl - Walk - Run!!!

- This cannot be stressed enough
- Ensure balance in your life work family hobby
- It Christmas! Enjoy the experience
- Start planning, prepping and executing as early as possible
  - The serious decorators plan/work year round!
  - During the season keep a notepad/pen at all times
- Get "Plugged In"
  - Consider attending a national show **ChristmasExpo**et the vendors, meet decorators from all over the country
  - Decorating Forums
    - Join them
    - Research Subjects

- Ask questions Search First
- Participate in threads add value
- List name & your location Find a buddy or mentor or be one

#### Search for regional forums to get plugged in your local area - NETWORK!

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- Extension Cords
  - Buy good quality 14/3 & 12/3 for Power Grid
    - Flexible
    - Color code **Red**, **Blue**, **Orange**
    - Make your extension cords
      - SPT1 or SPT2? (Stranded, Parallel, Thermoplastic)
        - SPT1 7 amps thinner lighter insulation
        - SPT2 8 amps thicker insulation compatible with store bought lamp cords
        - SPT<sub>3</sub> 10 amps thicker than SPT<sub>2</sub>
        - Color code Green, Black, Brown, White
        - 2 Channel Extension Cords
      - Vampires plugs, C7 & C9 screw sockets
      - Custom wire harnesses, multiple taps
      - Make them standard lengths
      - Store them by length or vignette





- Do NOT wrap your plugs, keep them open and off the lawn as much as possible.
- Recycle your used, dead, burnt out light strings
  - Do not throw them in your trash!
  - Find a local hardware store, Organization or ?? Many provide this service after the Season is over.
  - Cut off the female and male ends and keep them
    - These do fail and it is nice to have spares
- Cut the tags off your light strings
  - Yes it takes time, but it makes things look SO much cleaner
- Get a small jar and save the 3A fuses that come in that irritating plastic wrapper

- Silicone is a great adhesive/sealer, however, around
  - electrical wiring and components use **RTV Silicone** 
    - Normal silicone has chemicals that while curing off-gassing can corrode wires and parts.
  - Steal Ideas, *but give credit where due* 
    - Review websites/pictures
    - Take notes keep them organized (Evernote/OneNote
    - Watch Videos
    - Christmas Craftsman, Jeff Carter, "What's Old is New"
  - Keep your eyes open in every store you go into with your display in mind.....
    - You never know when you will see something that might serve your display in some way

- What's This?
  - Walking through McLendon's Hardware
    - Candy Cane Light Post Globe Mount





- What's This?
  - Walking through McLendon's Hardware
    - **RGB** DMX Flood Housing







### Random Thoughts

## Miscellaneous

- Harbor Freight Hobby Lobby Wal-Mart Amazon - Ebay
  - Tools you should consider in your toolbox
    - Snips/flush cutters
    - Soldering Station/Iron
      - Butane/Battery Solder Iron
    - Kill-a-Watt

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- Atlas Nitrile Gloves (awesome)
- Heat Shrink Gun
- Digital Volt Meter Scavenge or "hand me down" laptop for the garage or workshop
- Network LAN Cable Tester
- Jumper cables/brick
- Pump Wedge/Slim Jim
- Old solder iron/wood burner





- Zip Tie Gun

Hot Glue Gun

LED Keeper

- Light Tester/Fixer



### Miscellaneous

- Links to great Documents / Sites
  - Controller Planning Spreadsheet (Golden)
    - <u>Woodinville Wonderland-How To</u>
  - Holiday Coro (Display Planning, RGB, DMX, & more)
    - Holiday Coro
  - **RGB** 101 & other references
    - <u>Auschristmaslighting</u>
  - Vendors of all kinds
    - <u>Planet Christmas</u>
  - High Country Lights (Sequences, Other Links)
    - High Country Lights

### Miscellaneous

- Facebook has many Christmas/Decorating Pages
  Online Forums you should consider joining (Not an all inclusive list!)
  - AusChristmasLighting
  - DIY Christmas.com
  - DIY Christmas.org
  - Falcon Christmas
  - Light O Rama
  - <u>Planet Christmas</u>
  - <u>Xlights/Nutcracker</u>

### Home Stretch!

### Challenge

- Take only what you need. Pay it forward every chance you get, keep your ego in check
- Do what YOU want to do and have fun doing it.
- Make Display memorable, not cookie cutter
- Don't create something where someone thinks "Christmas threw up on the lawn"
- Create lasting memories Become a Tradition

#### **Questions??**



#### **Thank you for attending!**

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