

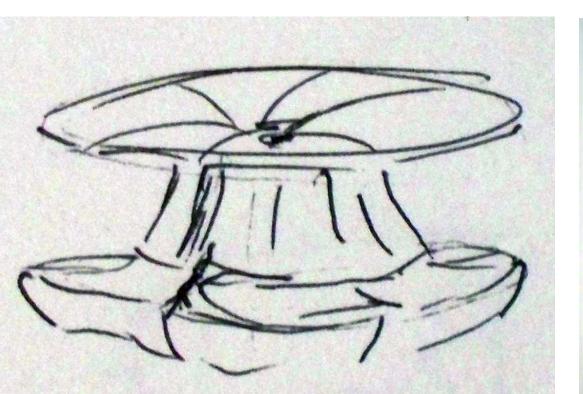
#### Solar-Work Station

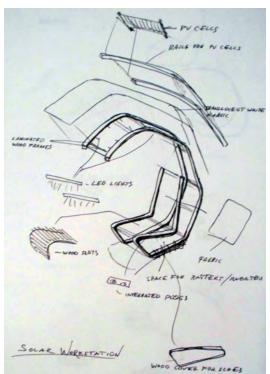
The concept of the solar powered workstation is to incorporate beauty into sustainability and functionality. The design we came up with revolves around making it sustainable without the sacrifice of beauty. The main key concepts behind the workstation are:

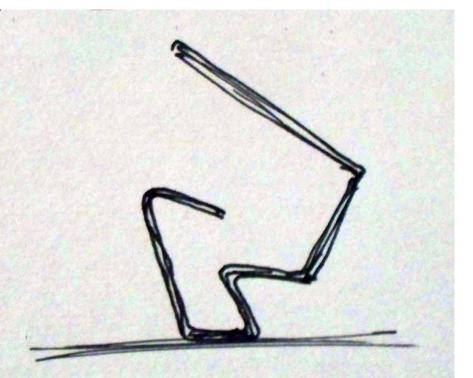
- Sustainable shown in design through the use of light, recyclable materials.
- Functioning year round by using it as a light sculpture during winter nights as an added feature.
- Form is derived from the optimum solar angles for the seasonal conditions and ergonomic dimensions for user comfort.
- Mobile and modular design where each module for one person could be connected together to form a bigger unit.

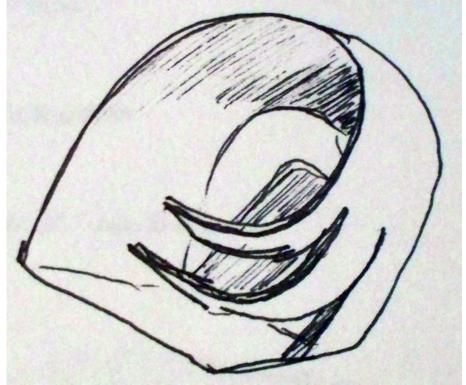


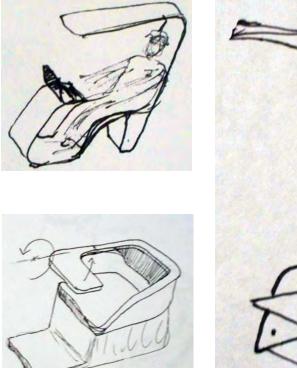
# Design Process

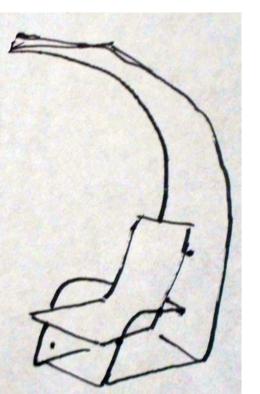


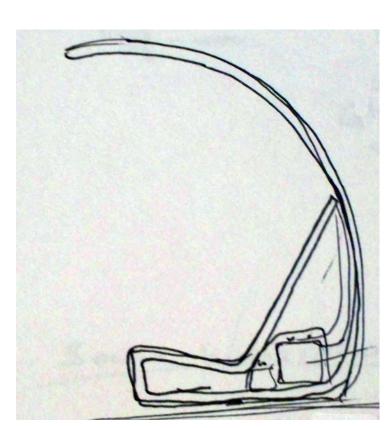


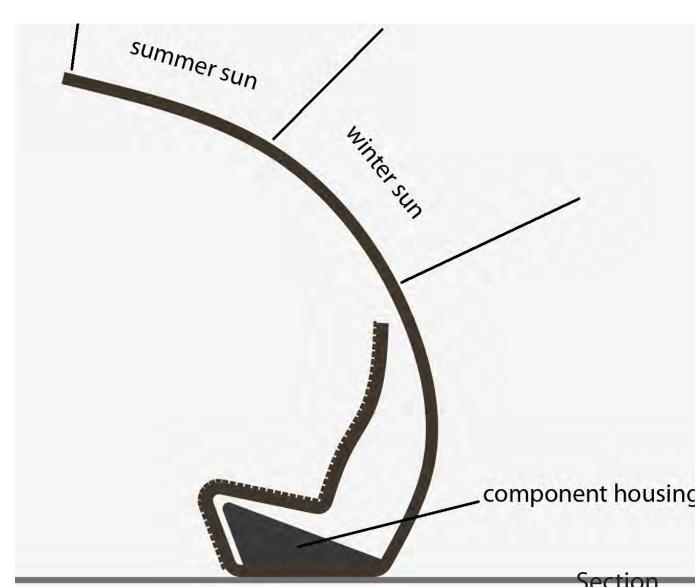












## Construction Process









#### **Construction Process**

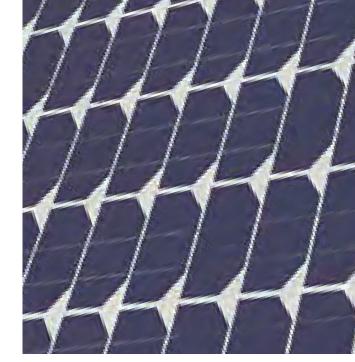
Some of the future improvements that were learned from the construction process that could be made to the Solar Workstation are:

- Better construction method than we have now.
- Better materials, such as aluminum.
- Make solar workstation cheaper, which could be possible due to better and cheaper material.

## Material + Cost











### **Cost Estimate**

Material	Quantity	Price	Total
Lumber Ash	56	\$3.26	\$182.56
Uni-Solar Laminate PVL-Series	1	\$588.00	\$588.00
Canvas for skin	1	_	<u> </u>
12 Ounce Exterior Wood Glue (Elmers)	5	\$28.95	\$28.95
Sunforce 7 Amp Charge Controller	1	\$25.00	\$25.00
Vector VEC024BCA 400-Watt Inverter	1	\$36.97	\$36.97
Deka Solar Batteries	1	\$250.00	\$250.00
Other (Screws, nails, etc.)		\$20.00	\$20.00
		<b>Total Cost</b>	\$1,131.48

