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INDUSTRIAL DESIGN | CARNEGIE MELLON UNIVERSITY | CLASS OF 2012

Ashley Coffee Table

This modern coffee table is made from solid ash and built by hand. The surface of the table maintains a continuous grain through a 45-degree slope which leads to a lower shelf, allowing the user to easily slip books and magazines out of sight.





Volkswagen Up! Electric Vehicle Charger

After extensive research on electric chargers, their technical specifications, and user feedback, I created this prototype for a Volkswagen-branded vehicle charger.

Using their Up! city car design language as an inspiration of the form, the charger has an unobtrusive and compact footprint, while remaining easy to use and access.



Nostalgica CD Player

The convenience of digital downloads has severely impacted the popularity of CDs and physical media in general. Also, CD players don't engage you with the physicality of the medium- all of the movement and mechanics are hidden from sight as the user interacts with the music using a digital interface.

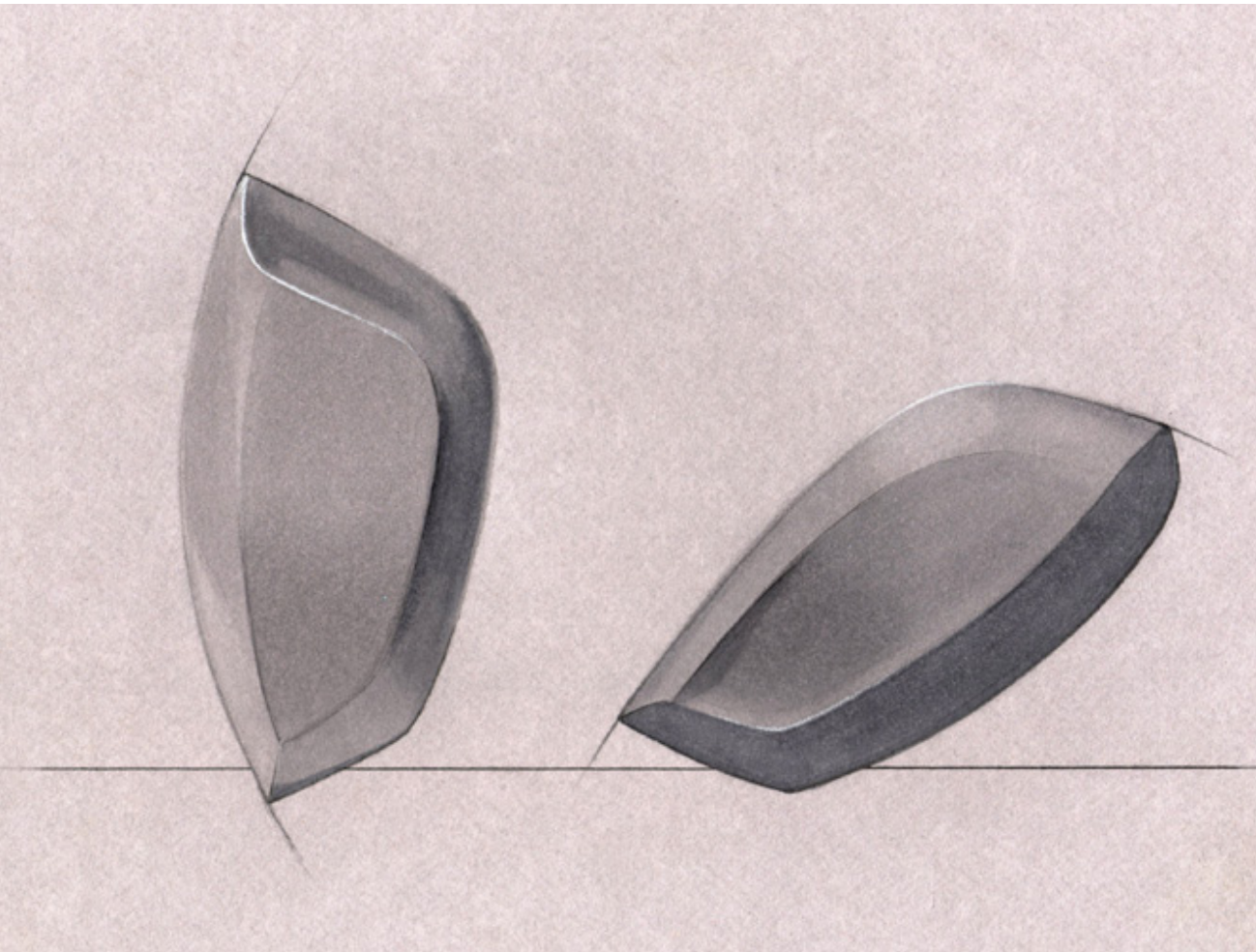
The Nostalgica CD Player is the solution. It has beautiful exposed mechanics- the highly precise movements of the laser carriage are exposed for all to see- just like the needle on a record player. It's also super compact and easy to use.



Hand Tool Form Studies

The aim of this project was to create a complementary set of neolithic hand tools with a focus on semantics. Visual language was used to create semantic meaning of the form's primary movement, utility and relationship to the human hand.

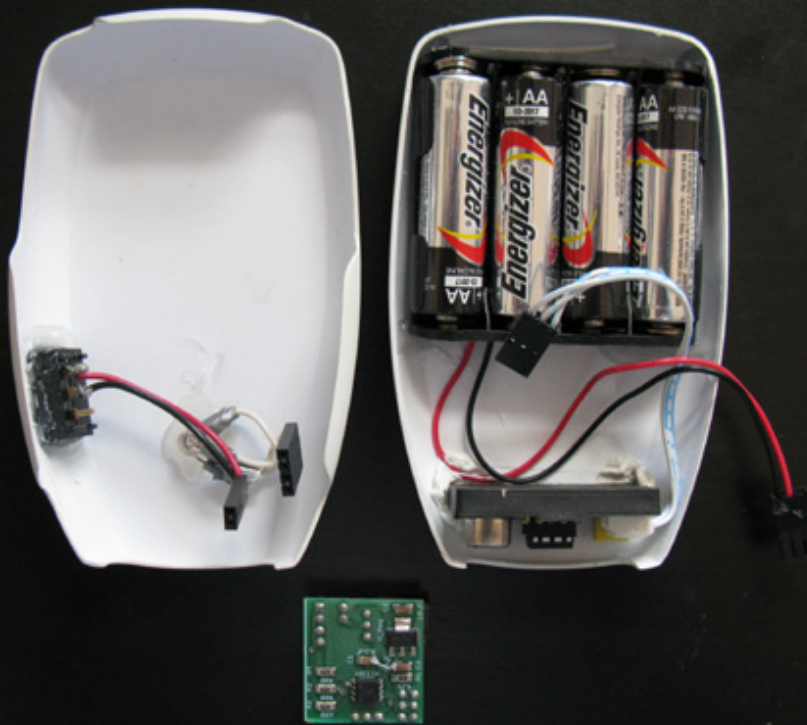
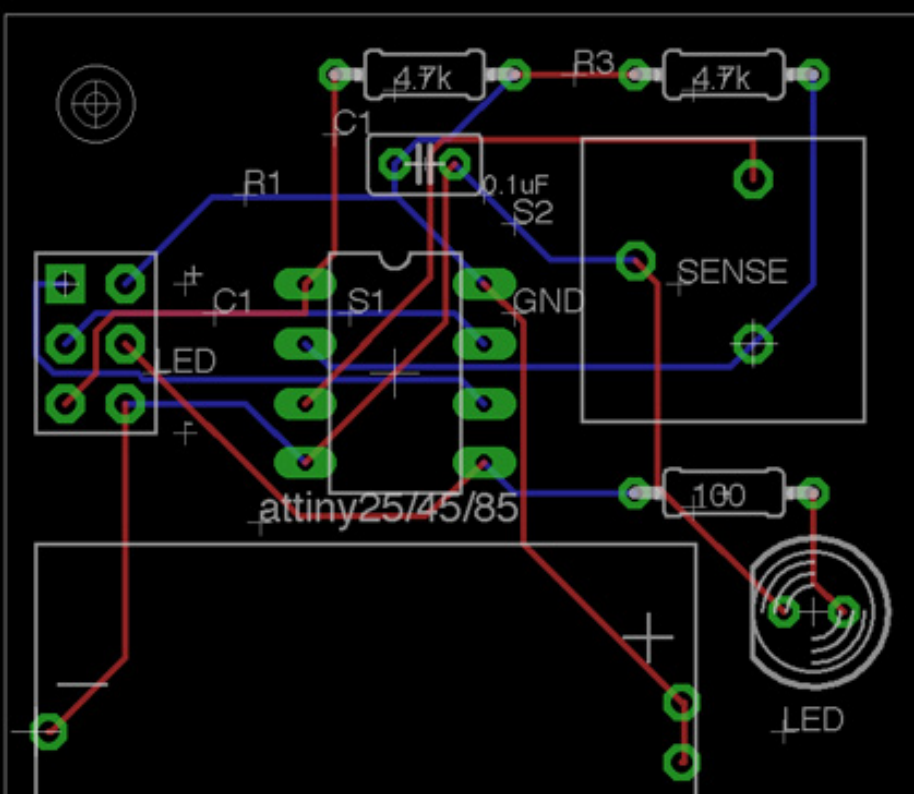
A pencil and marker rendering helped convey the forms of the tools before the physical models were created.



EarDefender Noise Monitor

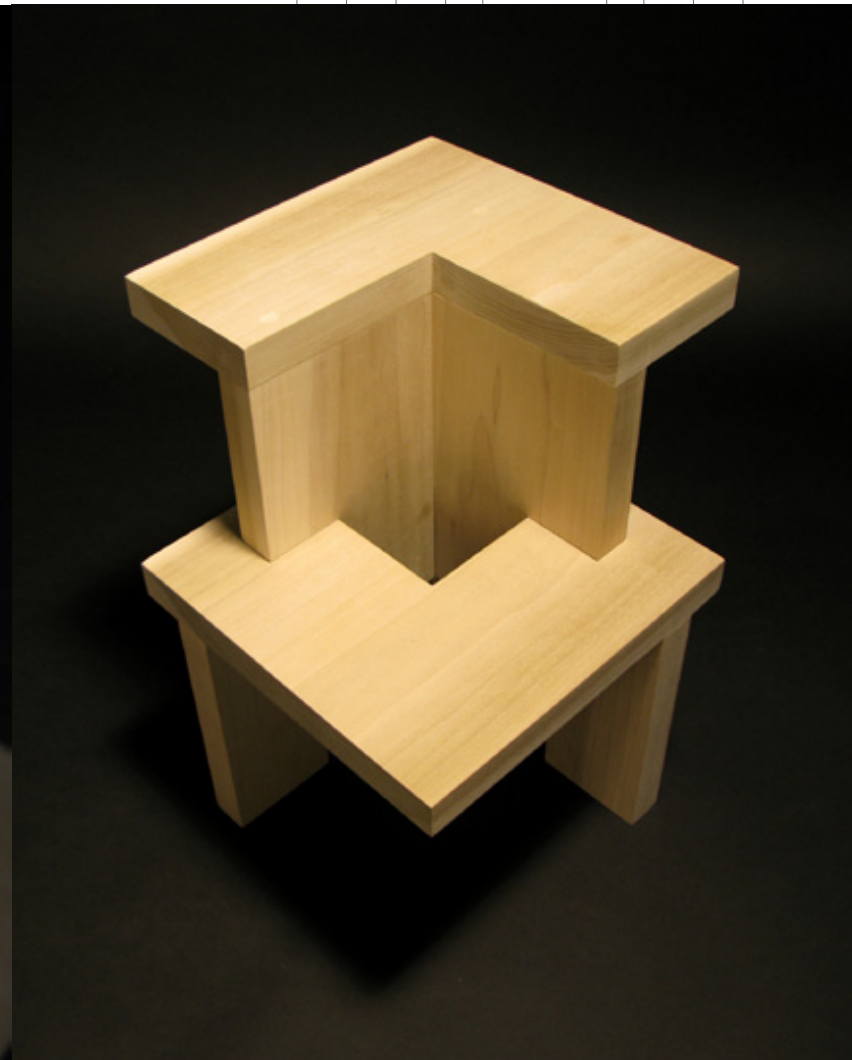
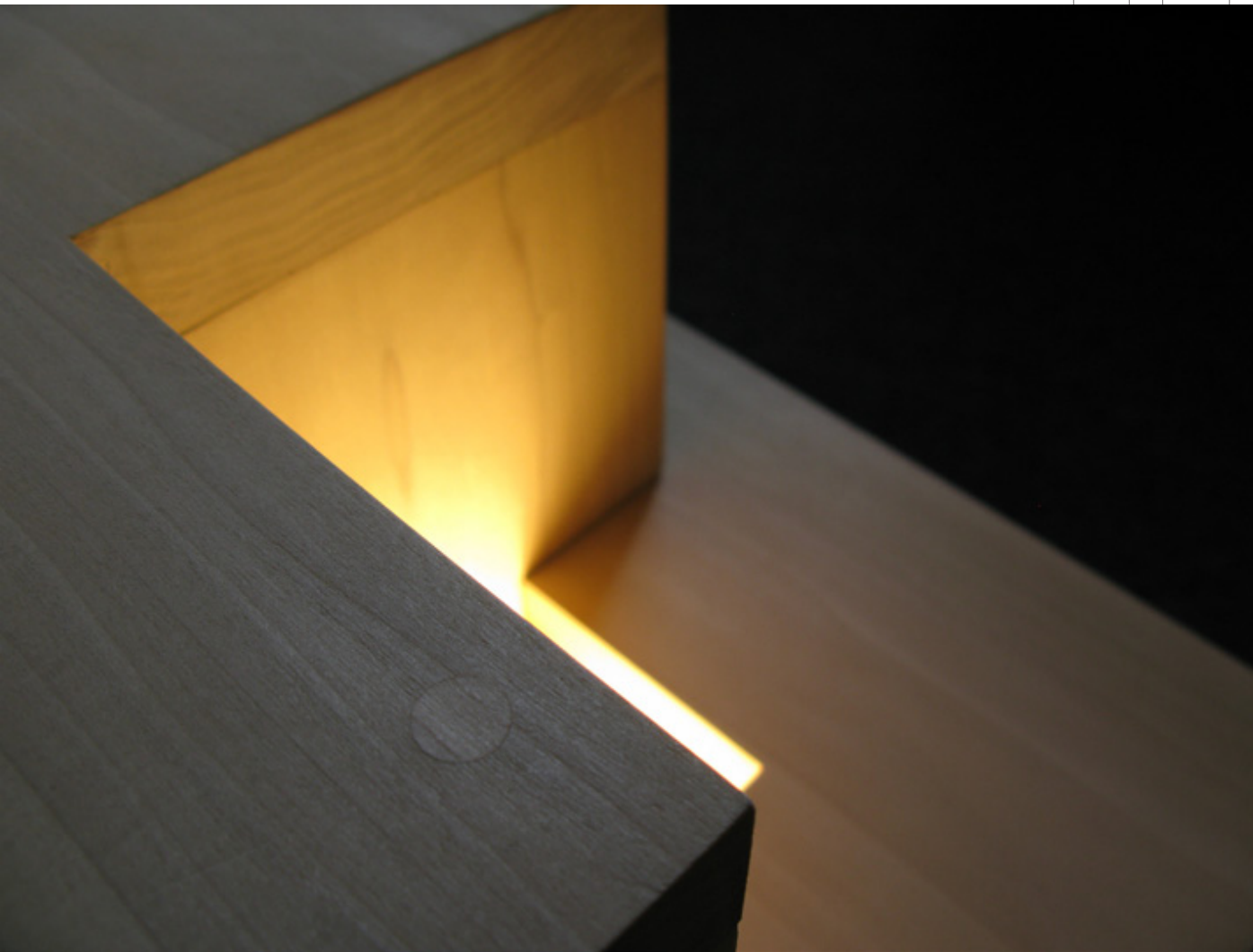
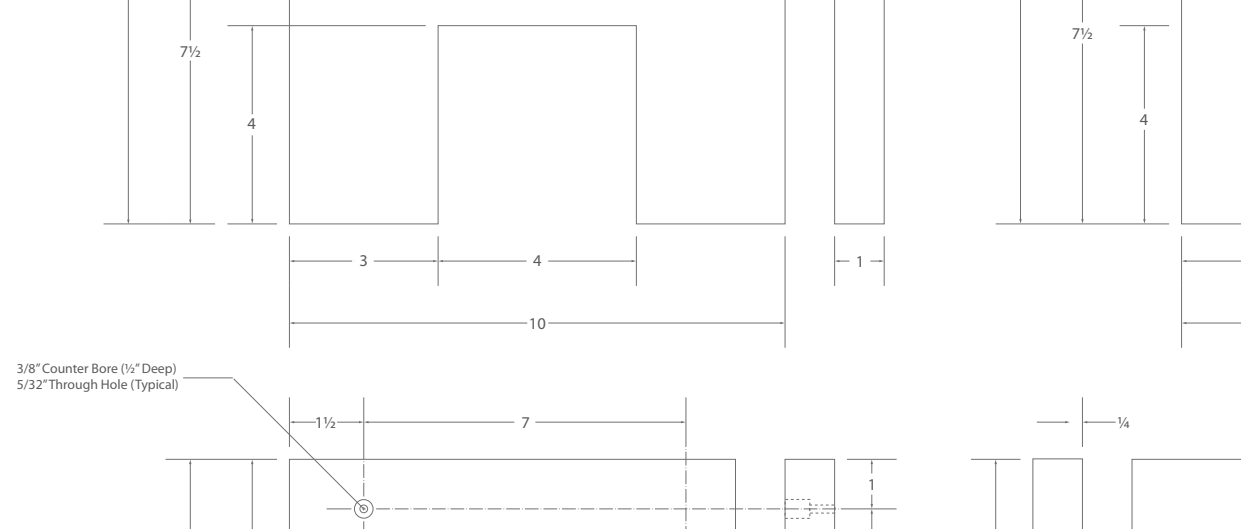
This project was an exercise in printed circuit board design and programming. Using an 8-bit microcontroller and an analogue sound sensor, the Ear Defender displays current noise conditions via a tricolor LED.

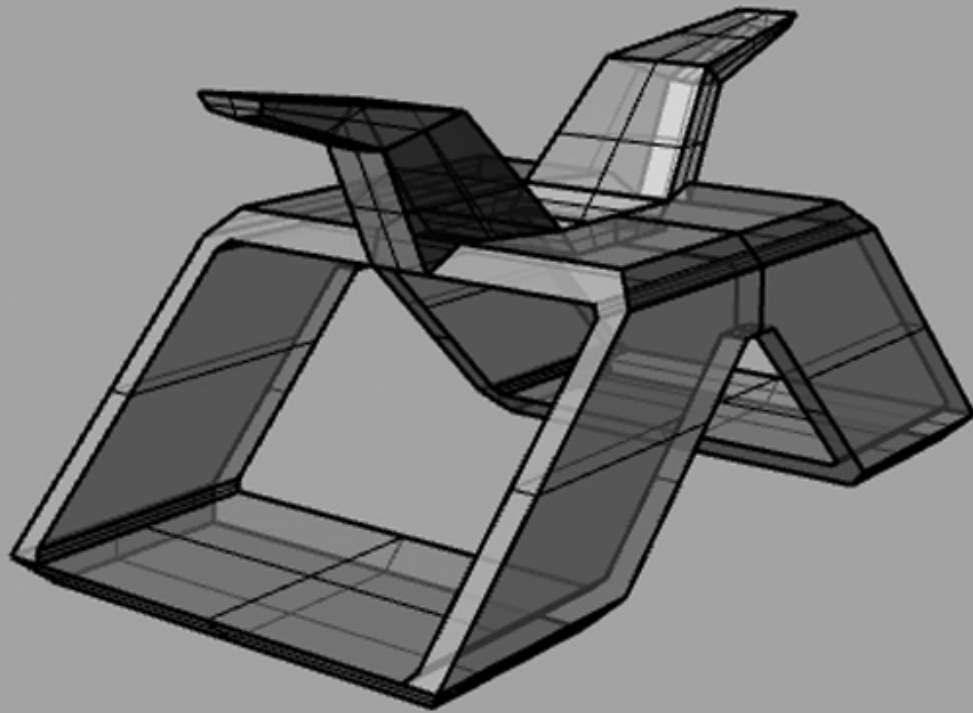
The circuit board was designed with Eagle and the programming was done in C. The housing for the device was vacuum-formed over wood pieces and snaps together, allowing for easy access to the circuit board for re-programming.



Four Board Table

This project required the creation of a four piece stool out of a 10 x 60 x 1" piece of poplar. Only 90° angles could be used and therefore it was an exercise in the generation of geometric form. The form aims to demonstrate a hierarchical structure of planar surfaces in a well balanced composition.

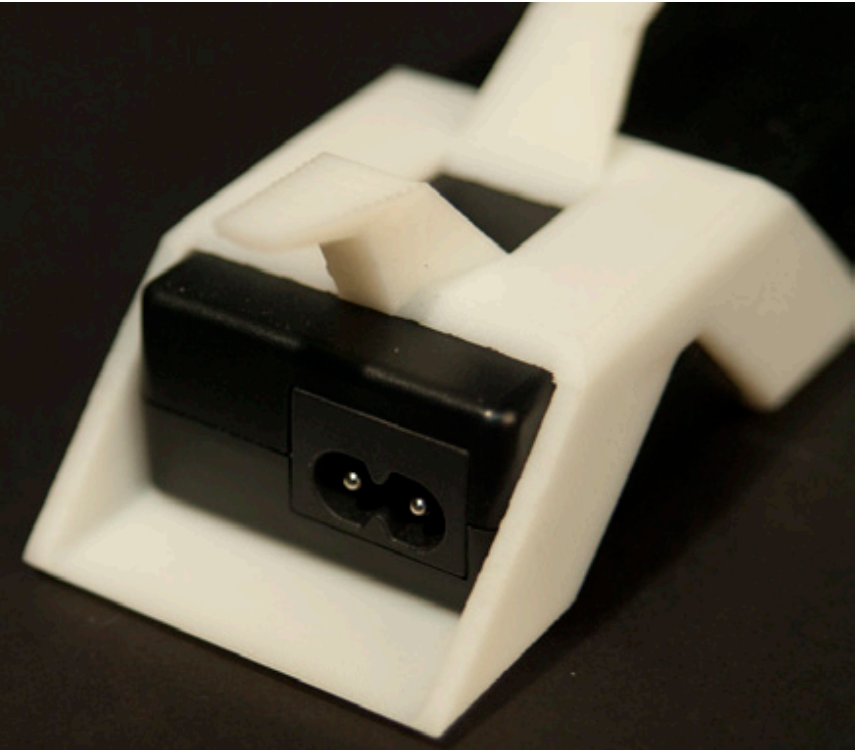




Cable Organizer Rapid Prototype

This simple cable organizer slips over the adaptor, providing a neat way to store the cable. It was printed in ABS-like hard plastic for a durable finish.

The 3D model was created in Rhino by building and extruding surfaces around the dimensions of the power adaptor.



Drawings & Sketches

Some examples of my drawings, sketches and renderings.

