Ted Shinn

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Message from the Department Chair

This book is the fifth annual compilation of senior work from the Industrial Design Department at the Metropolitan State University of Denver. The Industrial Design curriculum at MSU Denver prepares our students for professional design practice.

Our program is accredited by the National Association of Schools of Art and Design (NASAD) and collaborates with the Industrial Designers Society of America (IDSA) to help the profession. Through a solid foundation of an accredited curriculum and relevant learning opportunities at a very affordable cost the program graduates are well equipped to meet the challenges of the competitive Industrial Design profession.

The work included in this book reflects the efforts of the current group of MSU Denver senior ID students near the culmination of their academic careers. The diverse ideas and design solutions that are presented demonstrate their hard work and potential to succeeded in the profession. We hope you enjoy the material shown and appreciate the hard work that is represented.

I believe that successful careers await the graduates of MSU Denver's ID department, so long as they have the determination and will to pursue them. I wish all of them the best of luck in their endeavors to that end.

Ted J. Shin

Department Chair

Department of Industrial Design

Metropolitan State University of Denver
A majority of furniture built in the 21st century is not meant to last, it is designed that way. The landscape has shifted from making things well and timeless to making things cheap and trendy because of the wants created within the social construct of consumerism in our current culture. This type of model may work well for electronics but furniture made in this process is devastating to the environment and it lacks key connections with people on a physical and emotional level. The objects we own, own us, that is to say that people surround themselves with objects in order to shape their identity.
**Low Ride Table**

**Category**
Furniture

**Materials**
Clauro Walnut
Glass
Rubber
Steel

This table was made to accompany the low boy lounge by its dimensions. It has a modern aesthetic and a strong juxtaposition between the natural wood and the black metal.

It has a glass inlay for plants or drinks as to not damage the wood and the glass is protected by a rubber gasket that surrounds it.

The legs are made of sheet steel and bent to create a sturdy base. They are mounted together with flush mount hex-head bolts and acorn nuts.
Half Moon Halo Lamp

Category
Lighting

Materials
1/2” Round Bar Steel

The Half Mood Halo Lamp is made from a single steel rod. It is extremely durable. It has a simple classic tripod design and a one of a kind lamp shade.

This lamp is powder coated with a gloss black; the cord is woven/braided; the fixture is brass with a vintage on/off knob; and the bulb is a led glass bulb made to look like a vintage Edison bulb.
Kick Back Lounge

Category
Furniture

Materials
White Oak
Walnut
Round Bar Steel
Vinyl
Foam
Plywood

The Kick Back Lounge was designed to be a chair that would fit into a modern home aesthetic and that would be functionally comfortable and with an aesthetic of mid-modern timelessness that could fit in most homes.

The chair is made using hidden domino (Mortise and Tenon) joinery and a minimal amount of wood. The stretch bars help accomplish this by adding additional support so the legs cannot flex outward causing stress on the joints.

The seat is made utilizing the CNC and is covered in a two density upholstery foam with a high durability vinyl covering to last long and stay clean.
Duke Blend

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Meant to address the need for "green design", the Renewable Bench MKII shows that a basic material such as cardboard can be used to manufacture a bench for public seating. Over the course of its life, it will gain more of its own character, or Wabi Sabi. Eventually, at the end of its lifespan, it can be fully recycled into other products.
Renewable Bench

Category: Furniture
Materials: Cardboard, Baltic Birch
Steve Cox

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I have always loved making things, this is what drove me to Industrial Design. Industrial Design allows me to take my passion for creation and use it to impact other peoples lives in a manner than in beneficial to everyone.

I think one of the key factors in having a good product is to fail fast, and fail early. We learn from our mistakes and can build upon them to come up with a better end goal. We shouldn’t fear failure, but embrace what can be learned from our missteps so that we can build upon them and decrease future missteps. "I must not fear, Fear is the mind killer. Fear is the little-death that brings total obliteration. I will face my fear. I will permit it to pass over me and through me. And when it has gone past I will turn the inner eye to see its path. Where the fear has gone there will be nothing. Only I will remain." - Frank Herbert, Dune.
Creature Collectors

Category
Kids Furniture

Materials
Baltic Birch
Oak
Led Strips

My goal was to create a modern, simplistic, and fun organizational tool for kids to use in their rooms.

Creature Collectors is a line of kids furniture that captures the imagination and creativity of a child in order to facilitate good cleanliness habits.

These fun creatures help kids have fun when cleaning up their rooms. Creatures range from bunnies to bugs, aliens to ants.

Featuring foam teeth and a friendly facade, these creatures are meant to appeal to those aged 2 to 8.

The creatures arms help dump the contents in the mouth into the belly. The clear door panel allows kids to view the contents of the creatures’ stomach. They can also light up the belly with the built in LEDs.
Packaging makes up 40% of landfill waste. Our goal was to find a use for this excess material.

Over the course of 6 months we ideated, conducted user research, refined concepts, changed directions, and launched a kickstarter campaign.

For the final concept we created a modular, customizable system that can be build in a infinite number of ways depending on the needs and preferences of the user.
FLUGEL-ES

Category
Storage Solutions

Materials
Cardboard
Cork
Paper

There is a growing need for change within the realm of baby/toddler goods. The need for growth is reflected in the current behaviors of new/early adopter parents. They tend to do more research and rely on social media more than their predecessors. Because of that, their tastes are based heavily on trending things. There is also an upsurge of stay at home dads whose needs must be catered to as well. With these things in mind, the dynamic of the home has drastically changed, but the realm of baby/toddler goods hasn’t caught up yet.

The Flugel-ES is the ideal stroller for the new parent. To fulfill the needs and wants of the consumer the Flugel-ES comes with many integrates features.

Motorized Stroller
Rechargeable Battery
LED Battery Light
Skid Steered Controls
Articulated cup holders
Modular child seat to grow with your child.
Adam Fiala

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“Hulk smash the brackets that the masses try to stash me in.”
-Earl Sweatshirt
Travel.
While a student at MSU in the Industrial Design program my inspiration has always been the needs of my family and friends. I have learned so much from the professors in this program. They have helped me take my creativity and work ethic to a new level. To support my family I have been a full time employee of Home Depot during my MSU Denver experience. My goals have always been to dedicate myself to my family and to graduate with my degree in Industrial Design. Creative designing and changing the everyday human iterations with a positive, sustainable design has been my goal from the beginning. Finding practical solutions to functional issues of everyday life and objects is the reward. While being a good husband and father will always come first, the accomplishments of my profession give me such excitement for the future.
I had the opportunity to work with David Beeman of GC Water. He created a reverse osmosis system which could clean and customize the various levels of minerals in water to any consumer’s needs and taste preferences. If a company or consumer likes coffee from France his system can create the same tasting water you would get in France or anywhere else in the world you prefer. He came to us for a redesign of his system.

**Design Issues**
- Bulky
- Hard to Maintenance
- Took up storage space
- Eye sore

**Design Opportunities**
- Wall-mount for more storage space
- Easy to maintenance
- More appealing

Our final design consisted of a wall-mounted system. All filters would be located behind a stainless steel panel. A digital LED display can let the consumer know when it needs to be maintained. Everything is located in one unit rather being separated. This design solution won the “best in class” for design.
Karcher

Category
Sponsored Project

Materials
Plastic, injection mold

This sponsored project consisted of creating an easy to use, more comfortable experience for the manual car-wash. Our class began initially with the research and problems identified. Our task was a redesign of the wand. This consisted of a hands on spray gun with controls for four different spray features plus a display to tell you the user how much time remained.

Boa

Category
Non Shoe, Sponsored Project

Materials
Carbon fiber protective ear shells, with Boa technology.

Other
The right Boa tightens the chin strap, and the left tightens the four head straps.

BOA Technology gave our Intermediate Studio Class a project to design a “non shoe” devise using their innovative Boa system. With a background of wrestling throughout my life I endeavored to find a system that would have a positive impact on the problem of cauliflower ear with wrestlers. While it is advantageous to wear a headgear, many find it uncomfortable. I wanted to create more comfortable headgear that everyone would want to use.
**Cub Storage**

**Category**
Children’s Furniture

**Materials**
- Birch Plywood
- Chalk Board Paint
- Magnet Primer
- Dry Erase Paint

**Other**
Switchable side-boards to customize your child’s dreams.

For my Senior Project I wanted to focus on my two year old daughter. She has so many toys and we don’t have enough storage for all of them. I wanted to create a toy storage system that was interactive and customizable as she ages and her needs change.

- Magnetic Dry Erase Board and Chalk Board for interaction
- Small storage shelf for jewelry and smaller toys
- Drawers with custom storage bins
- Custom side panels to populate with favorite Disney characters.
A Quest is a trip to accomplish a task.
An Adventure is a trip without a destination.
A Journey is when the trip is more important than the destination.

Many degrees are quests. This degree is a journey. I can only say this with certainty as I am coming to the journeys end. I know I’ll look back and wish my education was never ending as I was always challenged. After functioning like this over the years here, the rest of the world seems ominous. This degree and the journey it has taken me on has made me to realize that my potential is endless and challenging myself as a professional will only make me into the designer I aspire to be. I look forward to the future. We are an amazing group and when we push ourselves we create amazing things. That doesn’t have to stop and end our journey together.
Work

Optimizing your office’s potential by optimizing comfort.

Category
Smart Tech.

Over time your work cube will start making routine adjustments for you.

Such as:
Dimming the lights as the sun comes in your office or increasing heat as the heat of the day dissipates

Temperature is tracked to learn heating preferences and adopt the most energy efficient heating patterns

Light sensors track the office lighting through the day

Internal audio sensors allow the observation of audio levels in different workspaces
Droplet

Bringing reverse osmosis into view

Category
Monitoring system

This product is an add on to a reverse osmosis (RO) system, which is used to take city water and filter out the particulates and other uncontrollable minerals in the water. These can greatly alter the taste of craft beverages.

GCWater’s president, David Bee man, came to us to see how they could make their new zero waste reverse osmosis system more appealing to coffee shops.

Most people and even employees are unaware these systems are behind their favorite coffees. This is why we wanted to insure this system increased consumer awareness.

To do this we came up with Droplet. Droplet is a wall mounted remote monitor what connects to the RO system kept in the back of the store.

The form gets consumers interested and with the additional concept of a mandatory sticker in locations that use the system, the amount of water quality awareness and its value to the buyer will increase dramatically.
Ore

Category: Sculpture

Materials:
Iron
Amethyst
Moss

Everything comes from the earth and at the center of it, there is primarily molten iron.
Caryn Keffer

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The Tessa Collection

Category
Furniture & Accessories

Three products work together to greet you at the entryway. Primary research informed each product's form and function. Design style and colors are inspired by the gems and minerals found in Colorado's Rocky Mountains.
Trellis Compostable Backpack

A goods transportation product for urban gardeners.

I developed a new, completely compostable composite for a backpack. I listened to urban gardeners to find out what they truly care about and to give them a product that would not harm the earth they love.
Parklet Project

Category
Furniture & Accessories

I led a team of designers for this competition project juried and funded by the Center for Visual Arts in Denver.
Schuyler Livingston

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The power of design is amazing. I have developed a passion for the ability to change lives for the better through design. I look forward to what the professional world has to offer and I thank everyone who has supported me.
CONTRAX

Category
Footwear

Materials
Composite (EVA + carbon)

CONTRAX is a shoe sole design that prevents the user from slipping on ice.

The lattice structure design allows the sole to expand and contract quickly which either cushions or activates carbine studs.

The sole would be made with additively manufactured due to the complex geometry and because it moves based on time and temperature it can be considered fourth dimension printing.
Aero Frame

Category: bicycle design

Materials: carbon fiber

This design was an exploration in form development, mixed with experimentation in alternate structural frame configuration.

Reformer

Category: Appliance

Materials: Aluminum, ABS

This product is engineered to allow for plastic waste to be 3D printed into new products. Our team developed an entirely new extruder head assembly that makes this possible.
Flush Brush

Category
Housewares

Materials
Various Polymers

The picture on the left is a client prototype that was used for proof of concept and the patent process.

The product required liquid soap dispensing and brush ejection capabilities. I challenged myself to accomplish both of these tasks without adding physical buttons.

Pushing down on the handle dispenses soap by opening a valve and pushing the tab on the side of the trashcan ejects the brush for replacement.
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project | reformer
Delta 3D Printer:
Recycling plastic into direct extrusion via auger
A. Plastic Input - The loading revealed yield points in specific areas which required design modification.

B. Auger Drive - This component is integral in taking in mixed plastic and moving it through the heating element into molten plastic.

C. Redesigned Extruder - This is the main element of the design. This completely unique design is inspired by injection molding machines.

D. Material Feed - This allows for ground up recycled plastic and pellet material to enter the extruder.

E. Delta Coordinate System - A delta configuration allows for easy movement of the extruder head and increased accuracy compared to a Cartesian coordinate printer.

F. Stepper Motor - Provides precise movement including retraction.
**On The Fly**
rooftop rack system

Category
Outdoors

Anglers need to protect their investments

On The Fly utilizes a ski rack or rooftop rack mounts to securely store and transport fly rods.
S.C. Avalanche Vest

Category
Textiles

Sidecountry - utilizing chairlifts to access backcountry skiing and snowboarding where no avalanche mitigation is present but less gear is required.

The S.C. Avalanche Vest considers all that a skier or snowboarder may need for a day on the chairlifts to get a backcountry gate. The minimal design allows the user to safely sit on the chairlift without having to take off their gear or protrude out from the seat of the chairlift.
Mark McHenry

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Design is a part of our everyday lives; so for it to be effective, it should be simple and easily understood.
Mobile Transfer

Category
Medical/ Accessibility Equipment

Materials
Epoxy Powder Coated Aluminum
Gore-Tex® Fabric
Thermoset Elastomer (TPE)

Over 3.6 million people in the U.S. need to use a wheelchair in order to live mobile lives, however there are still the challenges of getting in and out of the wheelchair in order to perform many necessary daily functions.

One device that assists with wheelchair transfers is called a transfer board, a board that bridges the gap between a wheelchair seat and a second destination.

My design is a transfer board that is portable so wheelchair users can take it with them anywhere, as well as having rollers and tread to assist in shifting the user to and from their wheelchairs with ease.
Pagosa Dog Pack

Category
Pet Recreation/Travel

Materials
Cordura
Nylon
Ripstop

When traveling or hiking with your dog, carrying their water and food, as well as your own, causes over-packaging and heavier loads.

This pack system allows users and their canine companions the ability to carry supplies that might be needed on longer trips or hikes.

The pack system has modular packs that come in different sizes in order to accommodate a variety of stored supplies as well as the benefit of equal weight distribution across the dog’s back.
**Weiß Schwarz Stuhl**

**Category**
Furniture

**Materials**
Steel
Medium Density Foam
Vinyl

This stool was inspired by simple geometries and values, creating visual interest with negative space and contrast.

The space inside the stool is open, creating space for leg room or small object storage as needed.

The stool’s simple form and values contribute to its versatility in function and contextual aesthetic.
Growing up as a child, I always felt the need to take things apart and figure out how they work. I discovered early on that I enjoyed working with my hands. Taking art classes and engineering classes in middle and high school helped me find a passion for making objects and contraptions. When I attended an open house at Metro, I found the Industrial Design booth and never looked back. Throughout school, I have been drawn to working on products for the recreation industry and service industry, this comes from my own personal experiences with work and hobbies.

I want all of my designs to combine more than one problem and to make it possible to be useful for more than one purpose. There are way too many products on the market that can only be used for one process and I want to help fix it. If I can eliminate the use of two products or more, and create one that can fill the place, then I feel I have succeeded.
Growing up as a child, I always felt the need to take things apart and figure out how they work, I discovered early on that I enjoyed working with my hands. Taking art classes and engineering classes in middle and high school helped me find a passion for making objects and contraptions. When I got to Metro for an open house, I found the Industrial Design booth and never looked back. Throughout school, I have been drawn to working on products for the recreation industry and service industry, this comes from my own personal experiences with work and hobbies. I want all of my designs to combine more than one problem and to make it possible to be useful for more than one purpose. There are way too many products on the market that can only be used for one process and I want to help fix it. If I can eliminate the use of two products or more, and create one that can fill the place, then I feel I have succeeded.

Hatch Fly Bag
Category
Recreation Equipment
Materials
Textiles

The Hatch was designed to solve the major issue of shoulder straps getting in the way and causing harm or pain to the user while casting. By using one strap and a mirrored bag, any fisherman can use the Hatch.

The one strap design can be worn by right or left handed fishermen and eliminate the use of more than one bag per outing.

The second problem solved is the issue of not having water or being able to access it while in the river. By placing guides and enough room for supplies upfront, the back half can be used to store water and food for the fisherman.

Using Waterproof ripstop and nylon fabrics, the pockets in the Hatch are semi waterproof. Creating a safe place for personal items, although it is not advised. The straps adjust from a 38” chest to 50”.

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The main project for my internship was redesigning the plastic floorboard for their bat bag, working with Sportwaves Unlimited. We tested and created a shape that would provide the most strength while reducing weight with material 66% thinner.

The ribs add strength against flexing while the rolled edges match the new wheels for the back and prevent ripping of fabric for the front.

The Power Scoop is designed to have a shakeable generator inside the handle that will power up and heat the blade of the scoop to ease in the process of scooping ice cream. This project was inspired by observing and testing various methods for serving ice cream in restaurants and home use.
Pagosa Dog Pack

Category
Canine Accessories

Materials
Textiles

The Pagosa was designed to eliminate the use of a harness and carrying your dogs supplies. It combines the harness and utilizes removable bags to allow for the harness to be used without the bags.

The modular nature of the pagosa allows for customizable positioning of the packs and will allow for different bags to be purchased as needed.

The bags come in three sizes, as shown in the photo above, and all the components can be folded and placed in the largest for ease of storage.
Nghiep Nguyen

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My name is Nghiep Nguyen, and I am from Vietnam. I am a student of Industrial Design at MSU Denver since Fall 2011. The reason I became an Industrial Design major is because I really like to draw. When I was a child, I spent all day drawing comic characters. I visited Metropolitan State University and saw some interesting sketches on the boards. I am also very interested in attractive objects with beautiful design which I’d never seen before. I asked myself, “Could I do that? Could I really draw it?” Now, I believe that my questions will be answered soon.

My design philosophy is simplicity. I like simple designs because I think simplicity is more not sophistication or complex, but could still be luxurious and make the projects more attractive. Moreover, my design philosophy focuses on the function of an object. A beautiful design is one that functions beautifully. In the future I would like to develop industrial design in my country, and introduce this major to everyone.
Comfort Chair

Category: Furniture
Materials: Metal, Wood

Comfort Chair has a strong structure: durable, high quality, and comfortable. Some metal chairs can absorb heat in summer and are very cold in winter. Therefore, with new design and high quality materials, such as maple wood and polycarbonate, Comfort Chair makes customers feel comfortable and they do not need to worry about heat in summer and cold in winter.

Square Light

Category: Lighting
Materials: Wood, Acrylic

Squarelight, a combination of table light and bed light.

The Squarelight could be used in living room, bedroom, or it could become a flashlight if needed. Moreover, with plastic and wood materials, the light is strong, durable, and it also has high quality.
**TravelSmart**

**Category**
Luggage

**Materials**
Polycarbonate
Metal
PVC
Fabrics

Design and create anti-theft luggage by using current technologies, such as zipper-less, alarm, blue-tooth, anti-tipping, movement sensors, finger-print. TravelSmart luggage bag is water resistant, drop resistant, and impact resistant. Meaning all and everything inside the luggage will remain perfectly safe. Zippers are not good in terms of security. Instead, we decided a door with a magnet would be an exceptional security replacement.
TravelSmart

The luggage bag can hold almost anything (within reason) that you may bring with you. Standing about 27” (27”x19”x11”) and weighing about 10 lbs.

With little to no-effort, carrying or hauling is a thing of the past. With polycarbonate and metal materials, it will feel like you are carrying a small school backpack.

With magnet lock, fingerprint scan, and GPS navigation no one other than you will be able to open your luggage bag.

In addition, you could weigh your luggage with electric scale.

After using this luggage bag once, you will never feel like your valuables are in danger again.
Leah Rich

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Leah Rich works with a wide array of materials to achieve designs that satisfy needs and engage users. Her goals with design are to be a part of environmentally and socially responsible innovation while creating happiness and emotional connection. She is constantly learning, collaborating, and experimenting to make solutions that enrich the human experience and enable individuals to realize their own potential.

“I believe ideas are stronger when working together, I love to collaborate with others. I also love blurring the lines between art, design, function and play.” She works with textiles, wood, plastic, metal, after sketching and making mock ups of design concepts. She is passionate about the potential that lies in each of us as creators of our realities and wants be a part of designs that inspire, evoke and awaken.
Micro Community

Category
Outdoor Furniture

Materials
HDPE
Cypress
Steel

The Micommunity is a modular outdoor system that enables a user to engage with their neighborhood through gardening and sharing resources. It is designed with everyone in mind, for anyone to build, grow and share.

Start with a bench, pop out the seat and it becomes a platform for creativity to add pods, stack and fill as you like. Planters, Cubbies, free libraries and birdhouses are just some of the possibilities.

This project was inspired by rare beautiful gardens within urban landscapes, legos, and the idea of sharing. This product lets the user create and discover their own potential to re-define what it means to be a neighbor and gives urbanites a tool to participate in their physical community.
The Mia is a bohemian take on the traditional tent, offering the creative camper an affordable, lightweight option for adventures, festivals, and mountain picnics. Camping is a growing interest with few products available for the creative camp- that has the functionality of traditional tents.
**Binto**

**Category**
Soft Goods

**Materials**
Codura
Nylon

The bento is a perfect solution for the mobile worker, letting the daily sketcher, artist, or craftsman set up anywhere and have tools visible and accessible.

**Cerra**

**Category**
Housewares

**Materials**
Ceramic
Glass

A smart and attractive solution to our cooking cycle, the Cerra is a ceramic serving bowl that can also keep and date your leftovers. The dial on top of the glass angled lid allows you to know when food has expired.
Daniel Shinn

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A Neighborhood Electric Vehicle (NEV) for the growing aging adult population that is safe, cost effective, and easy to use. Current NEV models do not meet the physical requirements of aging adults disabled by Osteoarthritis (OA). To effectively design a NEV that allows aging adults with disabilities caused by OA, the ability to maintain their living independence and to promote social interaction with their community.
CEV Elder

Category
Small Electric Vehicle Design

Materials
Adv. Plastics
Aluminum

Dimensions
8’ x 4.5’ x 6.5’

For my Senior Capstone project, I have chosen to redesign the neighborhood electric vehicle to meet the ergonomic needs of the growing aging adult population. Specifically those suffering from the debilitating disease of Osteo-arthritis.

The product is called CEV for Community Electric Vehicle, because of the application and end-use goals; to be the primary means of alternative transportation within local retirement communities.

My research has indicated that seniors often lose their ability to drive in the years following 65 due to physical, mental or visual problems, with that their independence and freedom of living.

As the aging adult population only grows in the coming years, I find it necessary to create a product that has their future interests in mind, continued happiness through independent living.
ModX - Space Bed

Category
Children’s Furniture

Materials
Rotationally Molded ABS LEDs

Dimensions
8’ x 6’ x 4’

ModX is a one of a kind modular sleep system specifically designed for those with young developing minds, mainly children aged 5 to 8 years. The unique design can satisfy both child or young parent alike. Equipped with multiple blasters, missiles and lasers, light bars and sound effects. Built to handle any cosmic space adventure or scary monster encounter.

The FLEET is comprised of only the most popular colors for every pilot’s (child) desired archetype in the galaxy. Included are this years forecasted pantone colors, such as: Green Flash, Rose Quartz and Serenity. Surely to look good in any house with good taste and plentiful memories.

The ModX sleep system is manufactured of ABS plastic to ensure absolute durability from years of punishment inflicted by your little space pilot. The main hull is rotationally molded for the highest rating in impact resistance. Additionally, the accessories are produced from injection molded ABS to capture the utmost level of detail, while simultaneously holding up to multiple waves of monster defense. The choice of materials also makes for an easy cleanup, in case of in flight sickness.
THRUST- VECTOR OPTIONS

Introducing new light engine up features, ensuring monster safety, brings instant relief to any space pilot. Available with 3 modular options; Standard, Deluxe and Supreme. Infinite combinations are possible. In addition to the spectrum of colors.

TACTICAL OPTIONS

Utilizing the ModX sleep system is a guaranteed way to ensure maximum overkill...I mean protection, for any pilot’s journey into the imagination. Fortunately there are plenty of tactical choices when it comes to arming this ship with the newest developments to date. Available in specified colors only.

Truck-Teeth

Category

After-market

Auto Accessory

Materials

Aluminum

Stainless Steel

Dimensions

3’ x 1.5’ x 3”

TRUCK-TEETH is the new cost-effective way to turn your truck into the ultimate beast that it is!

TRUCK-TEETH is sure to turn heads, drop jaws and scar the **** out of anyone in front of your truck. Manufactured from the most durable stainless steel and aluminum materials, also built and machined here in the U.S.A.

TRUCK-TEETH is the new way to make transform any truck into a monster!!!
Bradley Whitehead

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Is there a better way to measure corners for my house trim?
Advanced Angel Measurements

Category
Tools

Materials
Aluminum
Plastic
Glass

The advanced angle measurement device will measure corners and walls with precision allowing the carpenter to make accurate cuts for beautiful joints.
Arts & Crafts Nightstand

Category
Furniture

Materials
Ash
Walnut

This night stand is designed in the arts and crafts style with a modern twist. Asymmetry adds interest while the drawers and added shelf give ample storage space.
**SOL Rescue Drone**

**Category**
Drones

**Materials**
Aluminum
Plastic
Solar Panels

The SOL rescue drone will be able to deliver supplies, communicate with patient, and survey the scene.
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Fishing is considered one of American’s favorite past-time activities, but it does come with its own set of hazards. While companies are designing products to catch more fish, the safety aspect of the products, may be compromised. Fishing accidents such as slipping and falling can easily be reduced. The Rod Pack is designed compact, which will only allow the users to pack the essential gear and tackle only. The two rod holders on the each side of the pack are equipped with expandable pockets and quick release buckles, which will allow the user to have their hands free while hiking to their secret fishing spot.
Rod Pack

Category
Outdoor Equipment

Materials
Fabric
Plastic
Foam Padding
Anti-slip fabric

A. Reflector Strip - Allows the user to be visible while walking in the dark
B. Expandable Side Pocket - Allows the pocket to expand for large items
C. Quick Release Buckle - The user can quickly and easily take off the pack

The fishing rods are securely strapped onto the side of the pack to allow the users to use their hands freely while descending or climbing up rocky terrain. By allowing the hands to be free, the users will be able to balance, brace or even grab on to close by objects in case of a slip.

The users can fish and carry the pack at the same time.
Toddlers are messy eaters and parents don’t know what to do

- A baby is born every 8 seconds
- An average of 4 million babies are born each year in the US

Food Kart

Category
Children’s Furniture

Materials
Plastic
Stainless steel

It does not matter how cute toddlers look with food all over themselves, eventually someone will need to clean up after the child. Every toddler lacks the ability to feed themselves due to hand-eye coordination in the early stage of their development. The food mess the toddlers make may be unintentional

- Unisex
- Elongated top
- Open bottom
- Large viewing windows
- Containment
1. Put toddler in high chair
2. Bring food to toddler
3. Toddler eating

A. Open back end
   - easy to install high chair
   - ventilation

B. Hinge
   - attach to high chair

C. Food catcher tray
   - removable
   - easy to wipe
   - dishwasher safe

D. Sun roof
   - extra lighting

Big mess on the floor!  Mess contained!
and so the adventure begins...
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