



about me

Throughout my professional career, I have designed products that meet my clients' key aesthetic needs while also attaining their budgetary expectations. I accomplish this by maintaining continuous communications with Program Managers and Technical Leads assigned to each project, along with regular interaction with both the creative (id) and technical (mechanical) designers assigned to the development of the device/product.

I have extensive experience designing products for manufacturing using a variety of processes, from machining, to blow, injection, and rotational molding across a variety of materials, ranging from metal, wood, glass, and plastics. I have also been instrumental in manufacturing process improvements to

help lower component production costs and reduce product launch time (time to market).

Having worked on the corporate side of product development I have had the opportunity to learn to design products that can be manufactured with little or no changes from the approved concept. I have had the opportunity to work along side model makers, maintenance departments, assembly lines leads, pre and post processing departments, packaging, and shipping.

I was born in the United States and grew up in South America (Chile and Ecuador), returning state side in 1989. I am fluent in both English and Spanish, and have worked with manufacturers and their clients in both languages.

skills

Industrial Design

Product Definition

Use and Usability Research

Design Ideation & Concept Creation

Design Thinking

Human Factors and Ergonomics (member of H.F.E.S.)

Mock-Ups & Prototyping

Visual Modeling, CG Rendering and animation

tools & products in market

ID tools

Alias|wavefront (A|w) - Studio Tools

SolidWorks

SketchBook Pro

KeyShot

Adobe CS: Photoshop

Illustrator

InDesign

Premiere Pro

Premiere Rush

After Effects

Products in Market

In-dwelling Infusion Set

NOVASOM sleeping Aid

PICO Negative Wound Therapy

Magaw Medical Video Laryngoscope

Hemodynamic Monitor

Ralph Lauren Olympic Jacket

ABB Robotics Controller

other

Education

Bachelor of Science in Industrial Design,
Arizona State University, May 1994

Emphasis:

Product Development and Methodology
Manufacturing Processes
Human Factors
Materials

Awards

Clear Choice Award, 1997. Best new Beverage
Package. The Republic of Tea bottle

Certificates

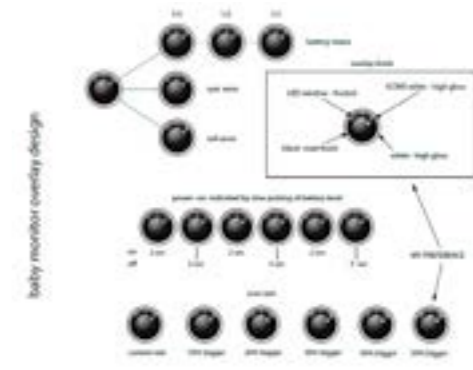
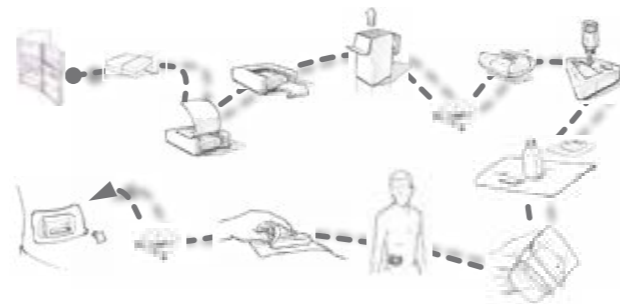
A|w Level II and Level III for Designers
A|w Training Certificate Level 2 Design
Customized Training, and Advanced 3D modeling
SolidWorks 2007 Advanced Modeling Certificate
Rapid Prototyping: Stratasys FDM8000/Quick Slice 6.1

SKILLS

HF / USE & USABILITY [brainstorming exercise]



UX DEVELOPMENT ROADMAP & LOGIC FLOW



FORM-FACTOR AND TECHNOLOGY STUDY



PACKAGING CONCEPTS, AND PROTOTYPES



medical

NEGATIVE WOUND THERAPY PUMP

PROJECT

[NWTP]

GOALS - DESIGN A:

- 1.- Portable battery operated Negative Wound Pump
- 2.- Pocket-Size
- 3.- Simple UI
- 4.- Replaceable Batteries
- 5.- Low cost



DRUG DELIVERY

PROJECT

[Electro-Poration Stimulator]

TOOLS

SolidWorks / KeyShot

GOAL

Redesign of Drug Delivery System.

CLIENT

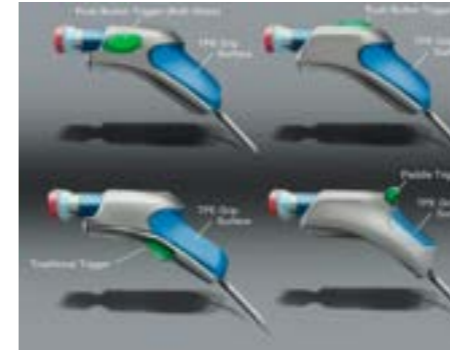
[Ichor]

Complete redesign including H.F., and Use and Usability Studies for drug delivery system which uses electro-poration for improved drug uptake at a molecular level.



Starting point

Applicator concepts



Final Design



ELECTRONIC DRUG DELIVERY

PROJECT

[Shire Medical]

GOALS - DESIGN A:

- 1.- Portable drug delivery platform
- 2.- Incorporate a proprietary pumping module
- 3.- Simple UI and GUI
- 4.- Research Medical Device Form-Factor trends

Work with our internal HF Department to:

- 1.- Conduct HF research
- 2.- Conduct Use and Usability Studies
- 3.- Develop 1st proposal of GUI wireframe
- 4.- Develop 1st run of operation Graphical logic flow

Form Factor Study



Final Design



LINE-SET PROPOSAL

PROJECT

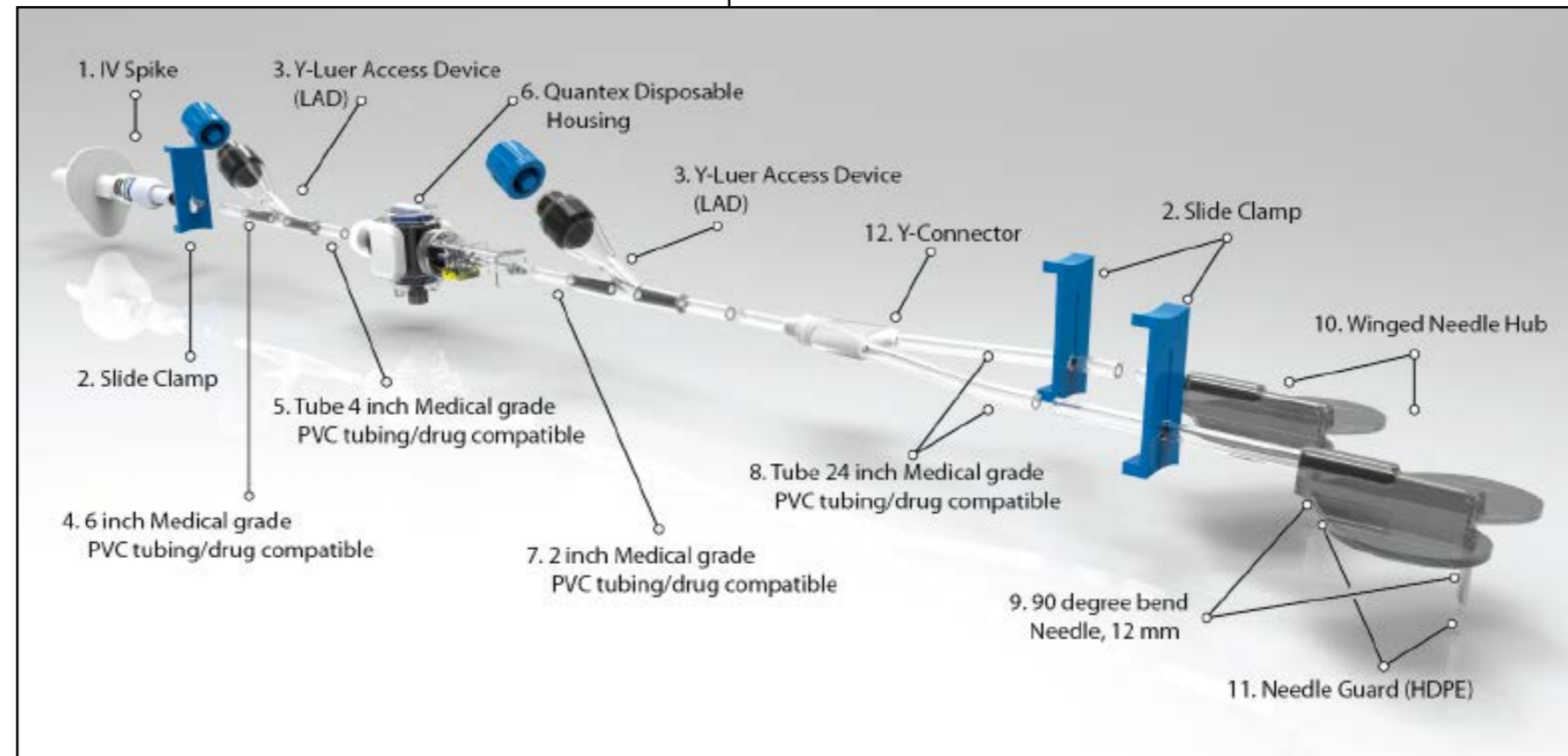
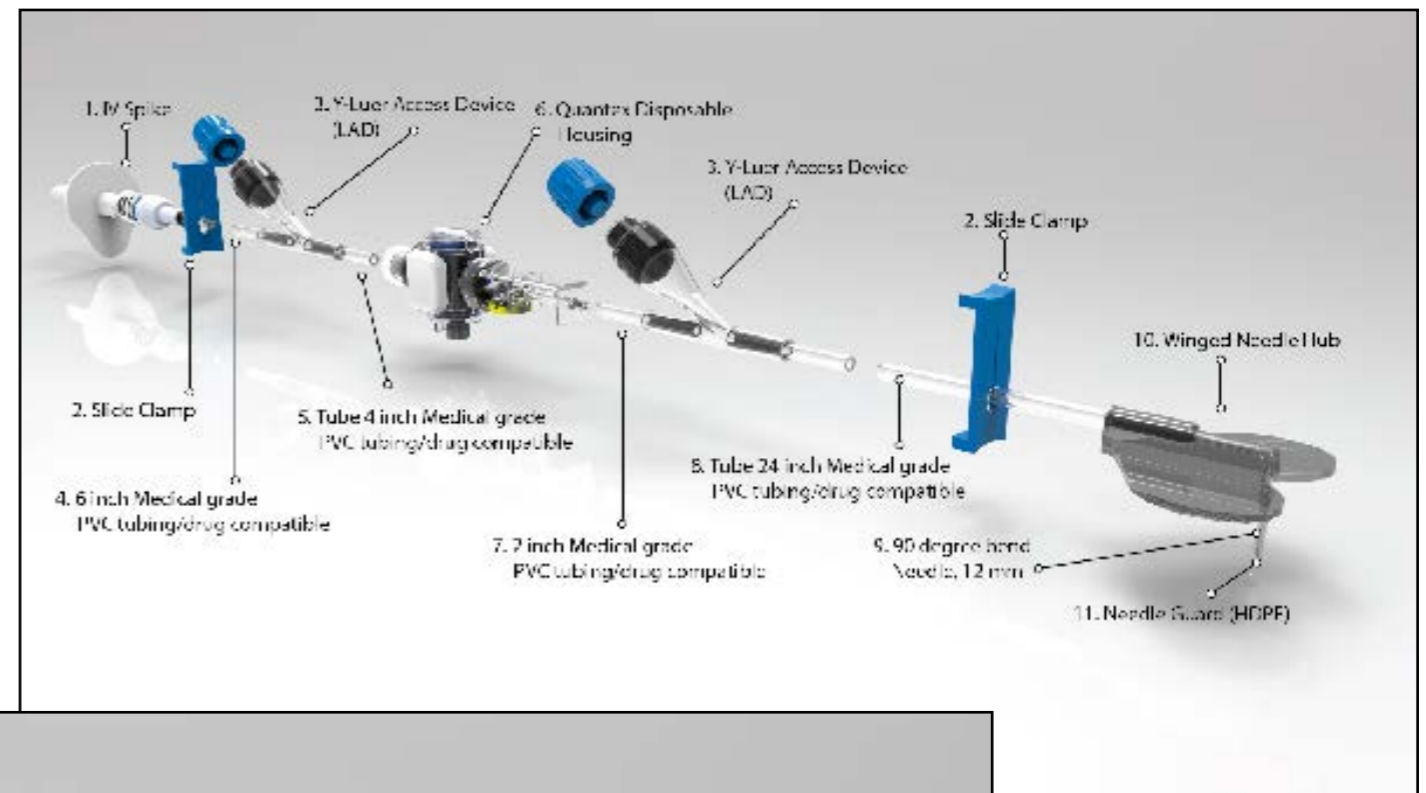
[infusion line set proposals]

GOALS -

- 1.- Conceptualize single and multiple needle line-set
- 2.- Incorporate a proprietary pumping module
- 3.- Simple UI

Work with ME and Manufacturing to:

- 1.- Ensure manufacturability
- 2.- Component used are available
 - V Spike
 - Y-Luer
 - Clamp
 - SS needle-set
 - etc.



POWDERED DRUG DELIVERY

PROJECT

[30 dose powder inhaler]

GOALS - DESIGN A:

- 1.- Portable fine-particle drug delivery platform
- 2.- Incorporate a current piezo platform used by client
- 3.- Simple UI I
- 4.- Hand-Held
- 5.- Small
- 6.- Durable and Disposable components

Deliver:

- 1.- Looks-Like Prototypes
- 2.- Final Design timeframe 3 weeks



PATCH PUMP

PROJECT

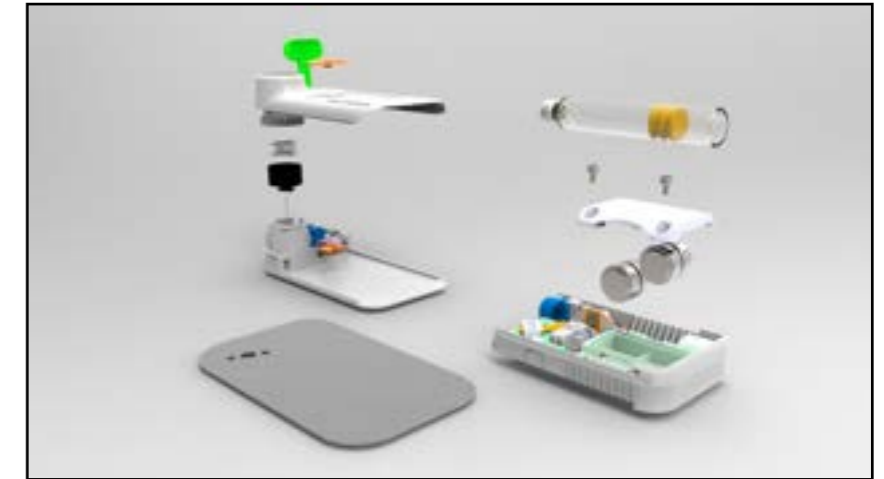
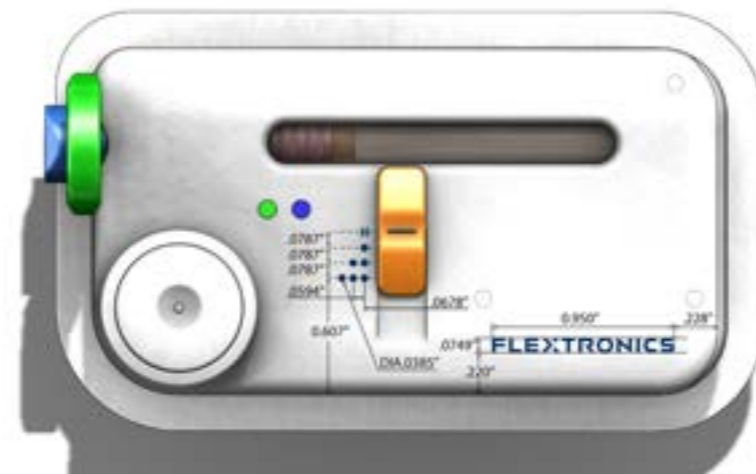
[Patch Pump infusion set]

GOALS - DESIGN A:

- 1.- Portable drug delivery platform
- 2.- Incorporate "new" delivery technology
- 3.- Simple UI

Work with ME and EE team:

- 1.- Conduct patent search on existing devices
- 2.- Determine Design FF and Technology platform appropriate for Use Case



DNA SEQUENCING

PROJECT

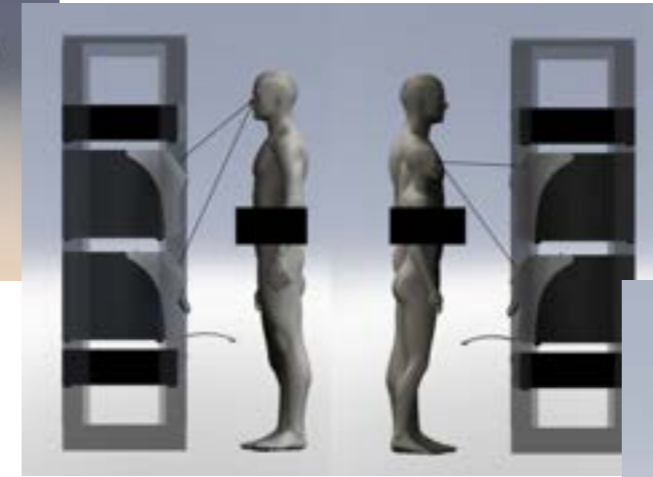
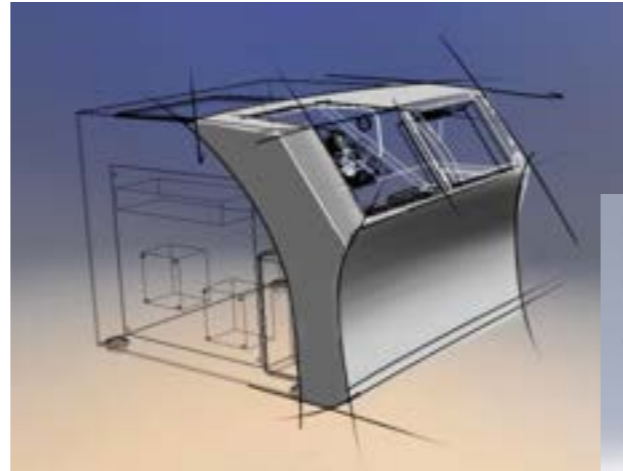
[ion]

GOALS - DESIGN A:

- 1.- DNA Sequencing Device able to be mounted on table-top and Server Rack system
- 2.- Incorporate a client's Mechanical components/design
- 3.- Simple UI
- 4.- Research Medical Device Form-Factor trends
- 5.- Conduct HF HE75 studies to ensure 30th and 80th percentile user's can appropriately use device.

Work with clients' internal ME Department to:

- 1.- Ensure prototype has appropriate venting features
- 2.- Conduct Use and Usability Studies
- 3.- Convert CAID model into working prototype



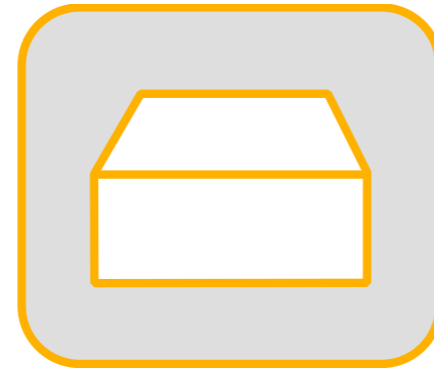
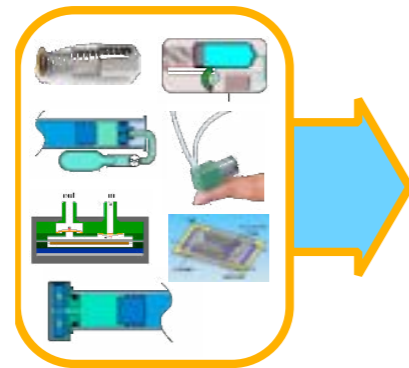
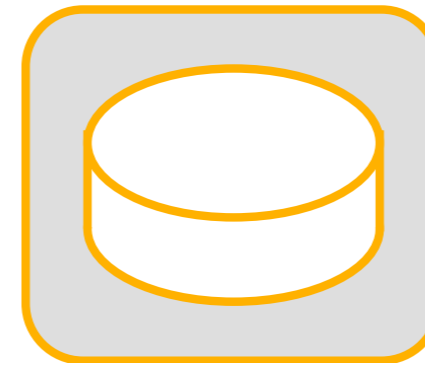
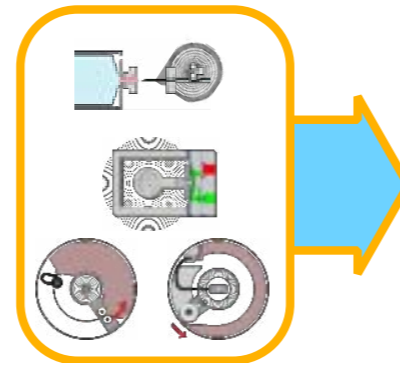
DRUG DELIVERY

PROJECT

[Drug Delivery research]

GOALS - DESIGN A:

- 1.- Portable drug delivery system
- 2.- Create IP for client
- 3.- Run intradisciplinary Design Thinking workshops at client facility



CARDIO MONITORING

PROJECT

[Hemodynamic Monitoring]

TOOLS

SolidWorks / KeyShot

GOAL

Form Factor ideation, H.F. research, UI, GUI, and functional prototype used for feasibility studies

CLIENT

[ICU Medical]

Collaborative work between ID, ME, EE, and Software.

Form Factor Study



Final Design



ENTERAL FEEDING PUMP

PROJECT

[Acura]

TOOLS

SolidWorks / KeyShot

GOAL

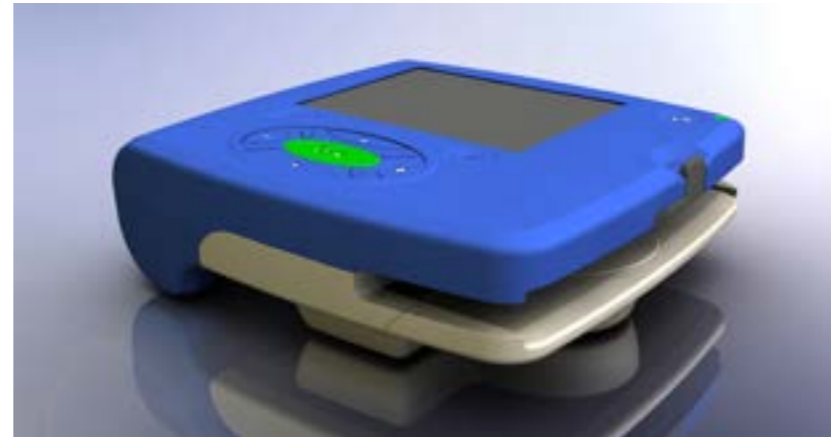
Develop an portable enteral feeding pump. My responsibilities included device form factor, device architecture, use and usability studies, CMF, lead focus group studies, initial GUI layout, and packaging.

CLIENT

[Confidential]

Collaborative work between ID, ME, EE, and Software.

Prototypes, User Research and Packaging



Final Design

GUI and Screen layout



SLEEP MONITOR

PROJECT

[Home Based Sleep Monitor]

TOOLS

SolidWorks / KeyShot

GOAL

Design and development of a wireless connectivity device which incorporates a cellular network, and extended battery life, in a small updated form-factor . Collaborative work between ID, ME, EE, and Software.

CLIENT

[Novasom]



VIDEO LARYNGOSCOPE

PROJECT

[CoPilot]

TOOLS

SolidWorks / KeyShot

GOAL

Develop a new cost, ruggedized video laryngoscope for in-field use.

CLIENT

[Magaw Medical]

Problem - b/c of the cost of existing devices, video laryngoscopes are usually used in hospital settings. This V.L. breaks with that model. It's low cost allows for EMT's to use the device in emergency situations in the field.



M2M HUB

PROJECT

[M2M Networking hub]

TOOLS

SolidWorks / KeyShot

GOAL

Develop a wireless networking hub for connecting IoT devices and transmitting critical data to EMR for Physician monitoring of patients with high-risk conditions

CLIENT

[internal]

Collaborative work between ID, ME, EE, and Software.



POWER TOOL STERILE FIELD SHELL

PROJECT

[Exo-shell]

TOOLS

SolidWorks / KeyShot

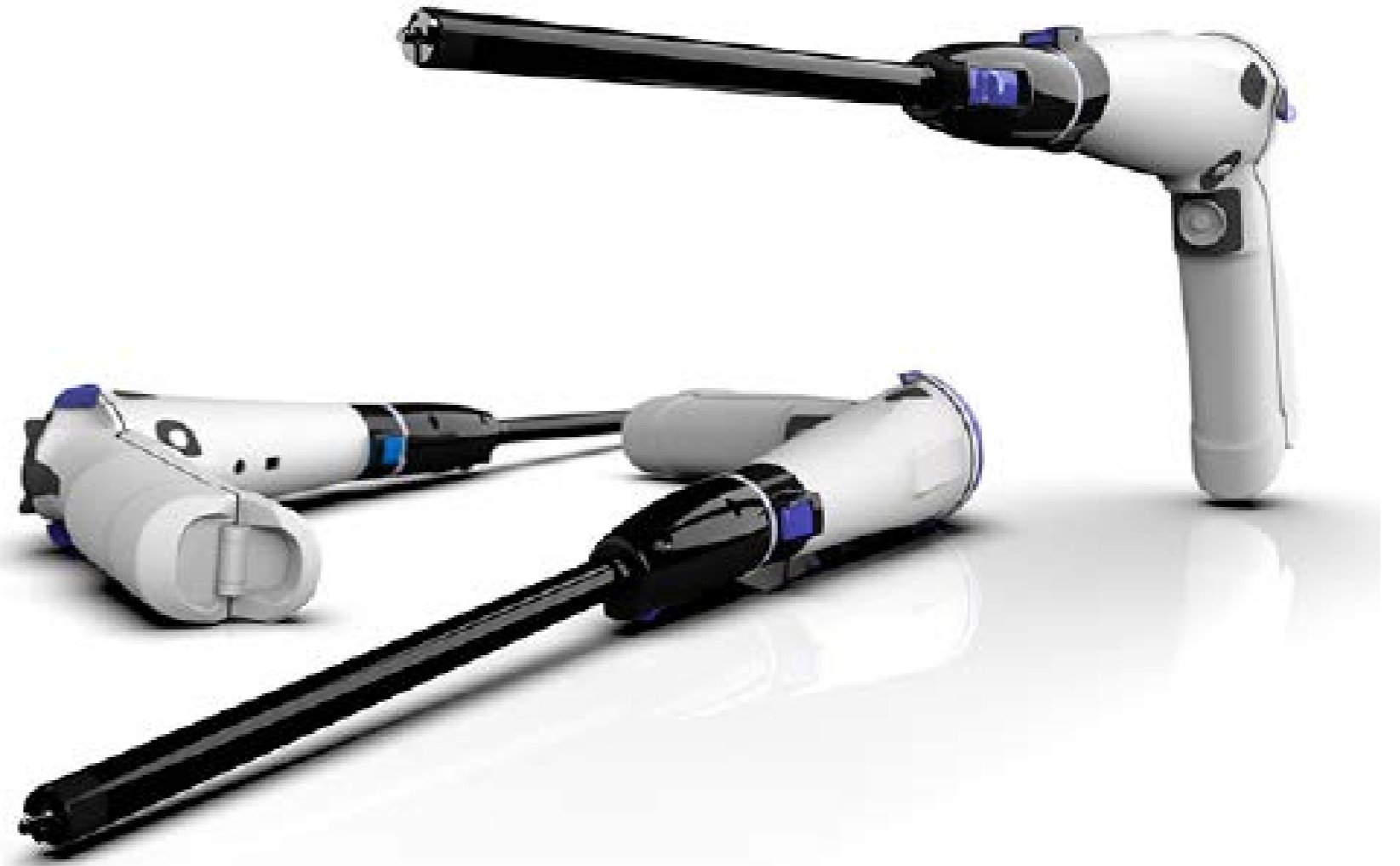
GOAL

Power Tool Exoskeleton

CLIENT

[Confidential]

Client approached our ID/ME team requesting we use another company's out-shell design for their new power tools. After inspection, the design supplied was undersized and did not meet FDA-Use and Usability Requirements. Our ID team re-designed the product in order to appropriately fit internal components, as well as meet stringent OR human factors, use and usability, and sterility concerns.



BLOOD GLUCOSE METER - EVOLUTION

PROJECT

[illumination]

TOOLS

SolidWorks / KeyShot

GOAL

Generate lighting option

CLIENT

[ADC]

flex currently manufactures this glucose meter. The client requested an investigation on simple solutions to add a "back-light" option taking into account H.F, Use and Usability, electronics, and Manufacturing considerations.



DNA - COLLECTION FORENSIC (PATENTED)

PROJECT

[Spec Collector]

GOALS - DESIGN A:

1.- DNA collection device to ensure DNA is:

Un-contaminated

Un-diluted

2.- Design for Manufacture is considered

3.- Simple UI

4.- Research existing products and develop patentable device

5.- Support client with patent application

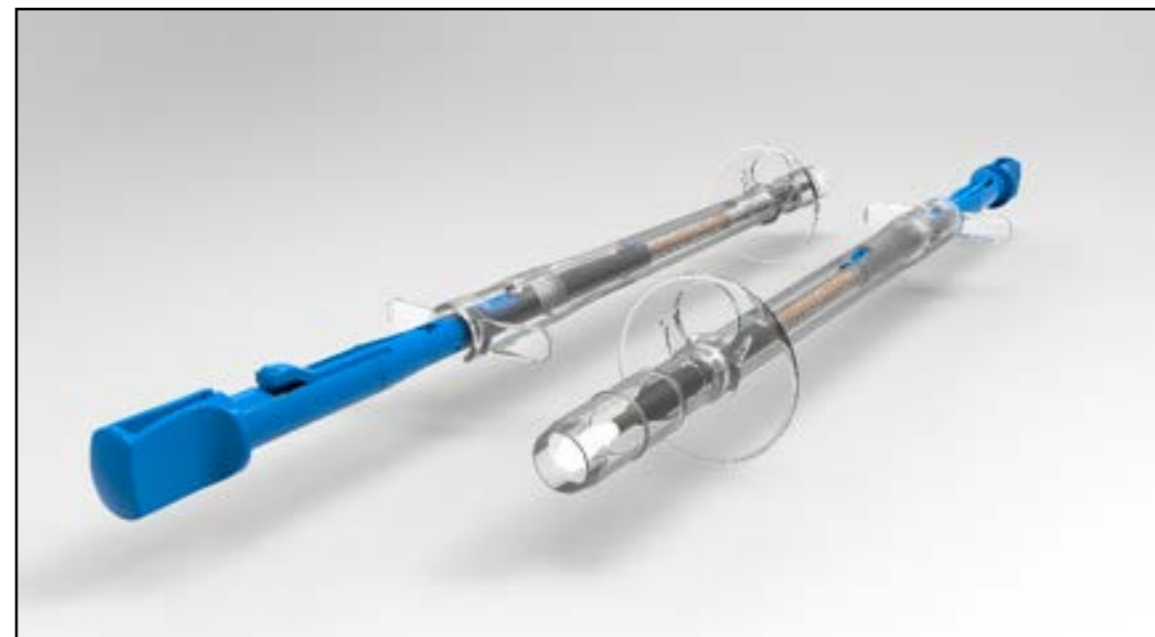
6.- Able to incorporate future use of electronics for in-situ analysis



Gen. 1



Gen. 2



Gen. 3

DNA - COLLECTION GYNECOLOGICAL (PATENTED)

PROJECT

[MyGynalign]

TOOLS

SolidWorks / KeyShot

GOAL

Complete design of new innovative female pelvic exam and DNA collection tool. Group also includes time stamped sensor cap for security. Collaborative work between ID, ME, external H.F.

CLIENT

[MyEcohealth]



SLEEP AID

PROJECT

[CoPilot]

TOOLS

SolidWorks / KeyShot

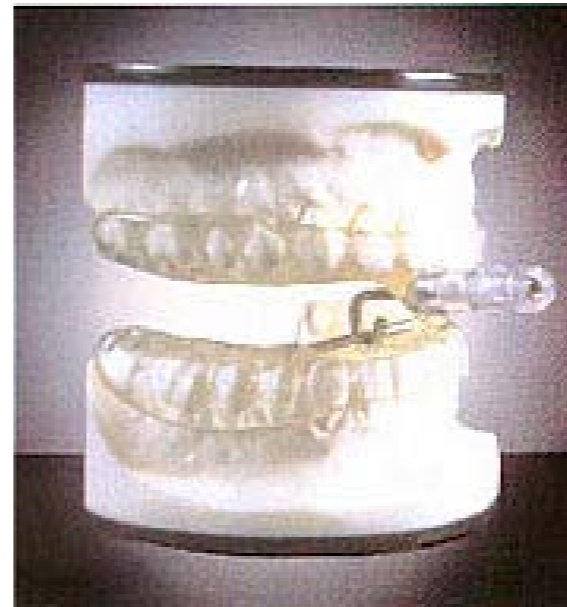
GOAL

2nd gen. sleep/snoring appliance

CLIENT

[DDS Kevin Thornton]

Dr. Thornton created a first generation appliance. I was asked to help him reduce the size of the bulbous feature/screw system to allow the patient to close his/her mouth, and improve the latching feature (reduce complexity).



EXPANSION PLATE

PROJECT

[expansion]

TOOLS

SolidWorks / KeyShot

GOAL

Create a plate to allow for device expandability

CLIENT

[Alaris]

Our Mechanical Engineering team worked with wireless connectivity experts within flex to design and develop a mating feature to allow for custom expansion of Alaris' base unit.



consumer

STAND

PROJECT

[Baby - Monitor Stand]

TOOLS

SolidWorks / KeyShot

GOAL

Develop a low cost, travel base for baby monitor

CLIENT

[nanit]

Create a stand system to function in a infant room to support a video-monitoring device. The stands need to be portable, lightweight, and non-obtrusive.



VITALBAND (GEN 1)

PROJECT

[Fall Detection watch]

TOOLS

SolidWorks / KeyShot

GOAL

Develop a compact watch for elderly users

CLIENT

[Sensogram]

Working collaboratively with the client's EE team, we developed the 1st Gen. fall detection device, offered with 2 style bands and multiple finishes [brushed AL shown.



VITALBAND (GEN 1)

PROJECT

[Battery charge]

TOOLS

SolidWorks / KeyShot

GOAL

Charging unit for Vital Band watch system

CLIENT

[Sensogram]

Working collaboratively with the client's EE team, we were tasked in developing a charging system which would not require the user to remove the fall detection watch from his/her wrist



VITALBAND (GEN 2)

PROJECT

[Fall Detection watch]

TOOLS

SolidWorks / KeyShot

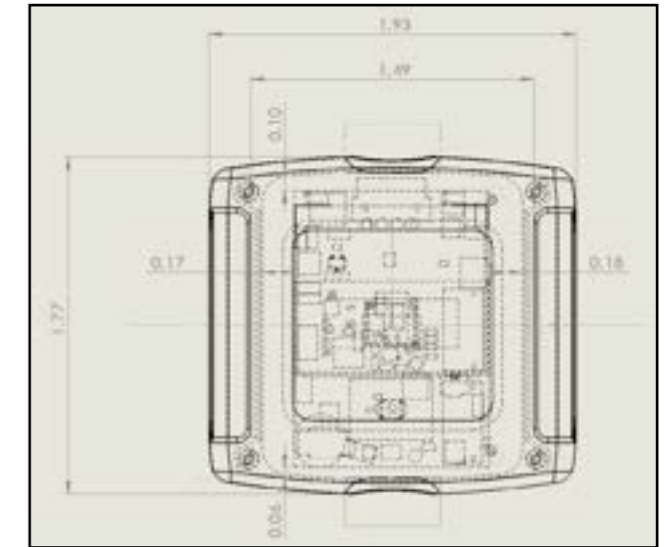
GOAL

Create 2nd Gen. wearable device

CLIENT

[Sensogram]

Working collaboratively with the client's EE team, we developed the 2nd Gen. fall detection device, offered with 2 style bands and multiple finishes [black and white plastic], and resistant to 3 atmospheres



PROJECT 2

PROJECT V

[IOC / USA]

TOOLS

SolidWorks

GOAL

Create illuminated jackets for the US Summer Olympic Team.

CLIENT

[Ralph Lauren]

Researching technologies, and learning how to incorporate electronics in a High Fashion Jacket designed by Ralph Lauren. Collaborated with RL's fashion team and suppliers.



TUNNING DEVICE

PROJECT

[Musical Instrument Tuning]

TOOLS

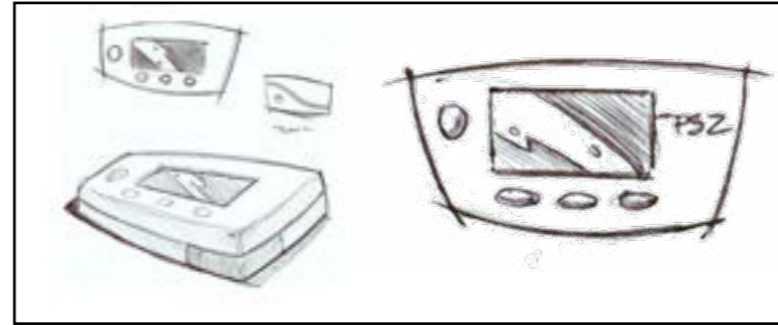
SolidWorks

GOAL

Thumbnail sketches, computer rendering, and image of final product. Worked in close collaboration with owner of the company while developing the products form-factor and clip functionality, while establishing a corporate CMF specification.

CLIENT

[Centre Pitch]



AMUNITION CHRONOGRAPH

PROJECT

[Create new product form factor for Tier-1 Chronograph]

TOOLS

SolidWorks

GOAL

Update product aesthetics to fit with premium product functionality.

CLIENT

[PACT]

Fnal Design



Historical reference



SOUS VIDE (PATENT PEND.)

PROJECT

[SousVide Supreme DOS]

TOOLS

SolidWorks / KeyShot

GOAL

Design a controller and heating element for a new [patent pending] Sous Vide cooking device.

CLIENT

[Sous Vide Supreme]

Creative liberty



industrial

ABB ROBOTIC CONTROLLER

PROJECT

[TPU Robotic Controller]

TOOLS

SolidWorks / KeyShot

GOAL

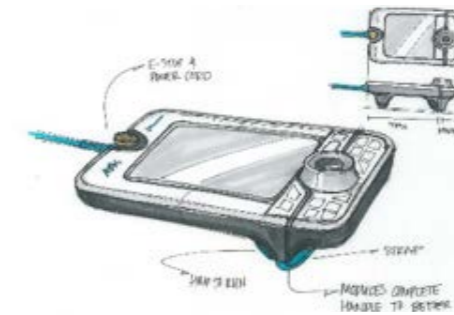
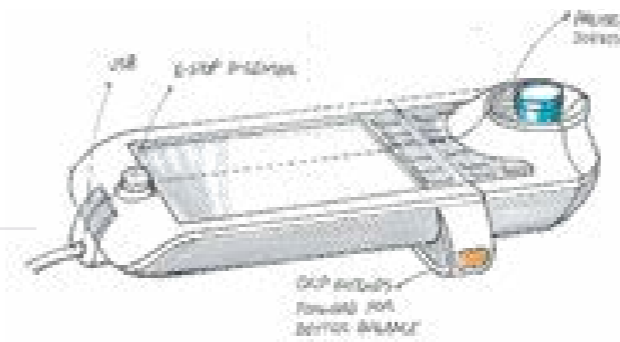
Upgrade the design of the controller to replace current model.

CLIENT

[ABB - Sweden]

Robotic controller upgrade to look and feel of modern products. Use and Usability considerations were taken as weight distribution, handle, control size, and fluid ingress for improved manufacturing environment

ideation support
by farm pd



Final Design



EV DATA STORAGE

PROJECT

[Rack System]

TOOLS

SolidWorks / KeyShot

GOAL

Present an innovative Rack System "cart".

CLIENT

[MSFT]

Requirements: Design a 1U rack system with "quick-change" capabilities to be mounted on an EV



DATA CENTER CABINET

PROJECT

[Data Centre Cabinet w/ BlueTooth lock]

TOOLS

SolidWorks / KeyShot

GOAL

Design and develop a wireless cabinet security system.

CLIENT

[classified]

Design and develop a Network Cabinet System activated by blue tooth. Two options (full door / 1/4 door) were designed, with the attempt to ensure MAX. airflow for component cooling.



HOTEL ROBOTIC ASSISTANT

PROJECT

[Proposal illustrating Design Services, AI, and HMI capabilities]

TOOLS

SolidWorks / KeyShot

GOAL

Proposal for a robotic hotel assistant which incorporates AI, Audio/Visual, Camera, IR, Proximity, weight, and Capacitive touch technologies among others

CLIENT

[undisclosed]



LARGE FORMAT TOUCH PANEL

PROJECT

[Proposal for large touch panel screen for education settings]

TOOLS

SolidWorks / KeyShot

GOAL

Proposal for Design and Manufacturing 72"+ large format touch panels for education settings

CLIENT

[Promethean]



packaging

PACKAGING

PROJECT

[NBB Bottle Design]

TOOLS

GMS CAD / A|w visualization

GOAL

Develop a iconic package design for New Belgium Brewing, Fort Collins, CO

CLIENT

[New Belgium Brewing]

In conjunction with key-stakeholders, we developed an iconic glass bottle for the company. Part of the development process included learning the end-users filling line capabilities and capping technologies to ensure fill line capabilities were maximized. Collaborated with Mexican manufacturing plant to help reduce product breakage.



PACKAGING / AWARD

PROJECT

[Republic of Tea]

TOOLS

GMS CAD / A|w visualization

GOAL

Create an iconic bottle for tea

CLIENT

[Republic of Tea]

Collaboration with Graphic design firm in the development of The Republic of Tea bottle. Coordinated between graphics company and manufacturer for improved efficiencies during manufacturing. Responsibilities included form development, sketches, computer renderings, part detailing.

Clear Choice Award winner, 1993



GLASS PACKAGING

PROJECT

[Ink Bottle]

TOOLS

GSM

GOAL

Created a new stylized package for Levenger

CLIENT

[Levenger Inks]

Design proposal for new ink bottle. Performed ideation sketches and renderings, and technical detailing. Served as manufacturing liaison between the manufacturing facility in Monterrey, Mexico, sales representative, and the final customer in order to reduce time to market and ensure customer satisfaction was met,



PACKAGING

PROJECT

[Spices]

TOOLS

GMS CAD / Alias | wavefront

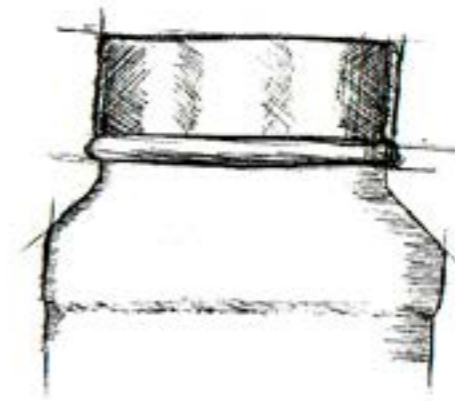
GOAL

Create a new look for Watkins Spices packaging

CLIENT

[Watkins Spices]

Support the client in creating a New Look for their packaging.



furniture

SEATING

PROJECT

[Chair]

TOOLS

SolidWorks

GOAL

Develop a new compact mechanical plunger system

CLIENT

[American Leather]

I was tasked in creating a new chair style that had not yet been produced at the firm.



SEATING

PROJECT

[Theatre]

TOOLS

SolidWorks

GOAL

Home Theatre Seating system

CLIENT

[American Leather]

Using an existing power/motion mechanism the goal was to develop a lounging seating system for home theatre. I worked with framing, and flat-pattern specialists to ensure fit and feel was the best for the furniture's intended use.



SEATING

PROJECT

[Seating]

TOOLS

SolidWorks

GOAL

Create a new seating line

CLIENT

[American Leather]

Envision, sketch, model, and prototype a new seating line for the firm.



SEATING

PROJECT

[Contemporary Seating]

TOOLS

SolidWorks

GOAL

Design and build a Contemporary chair

CLIENT

[American Leather]



SEATING

PROJECT

[Ladue Seating Group]

TOOLS

SolidWorks

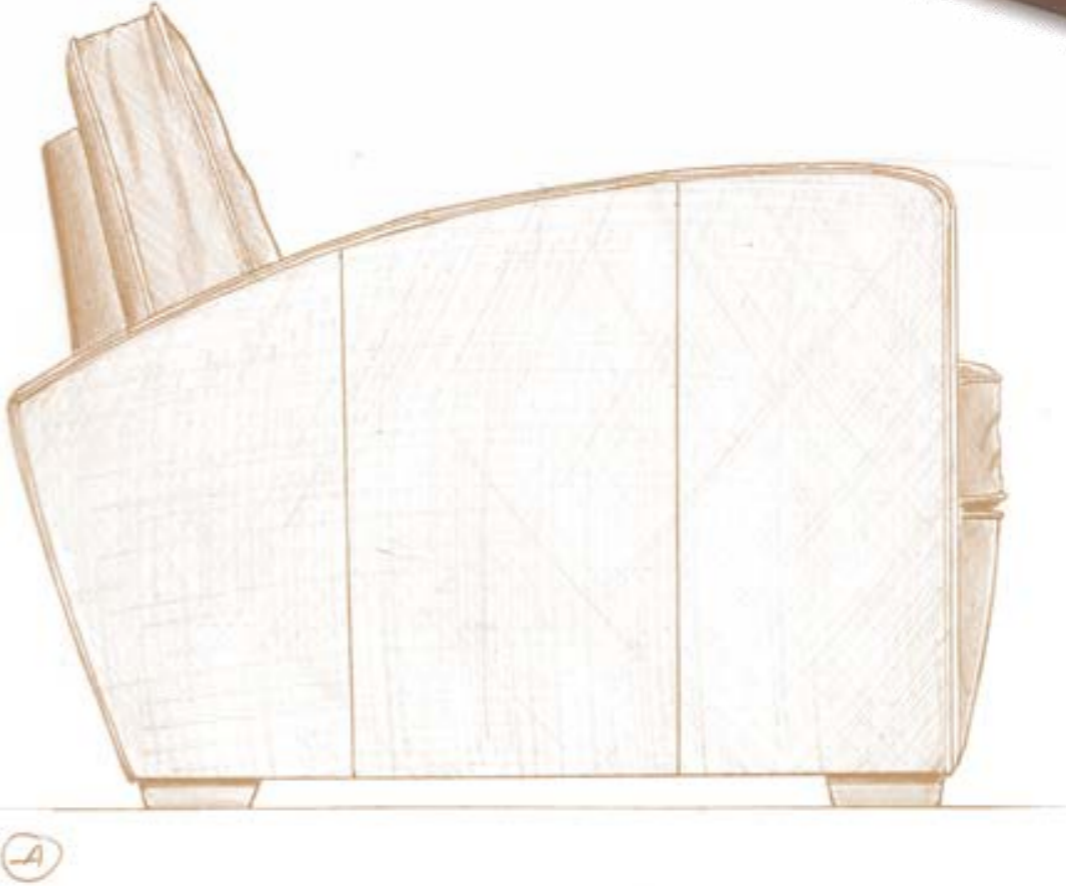
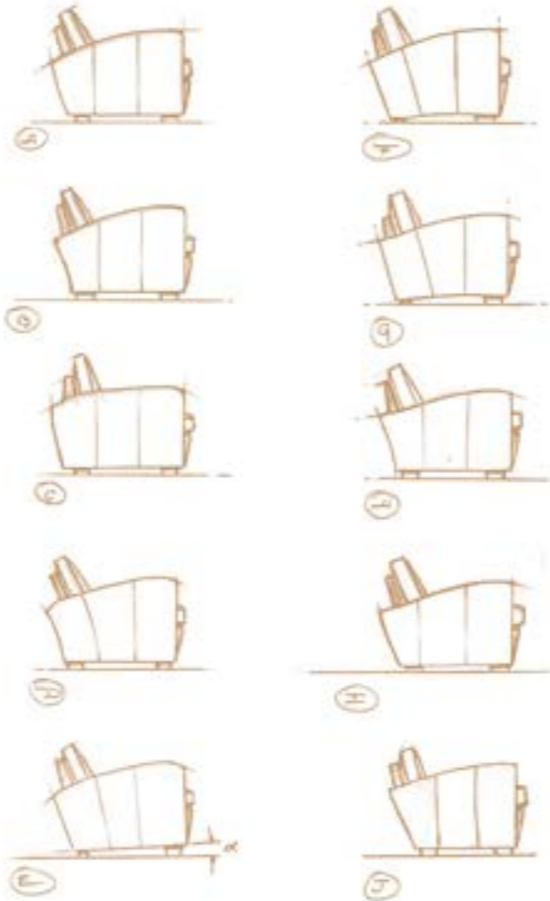
GOAL

Develop a new compact mechanical plunger system

CLIENT

[American Leather / Crate & Barrel]

New seating offering for Crate&Barrel. Worked directly with clients' buyer for Furnishings division.



FURNITURE

PROJECT

[AL and Leather Bench]

TOOLS

SolidWorks

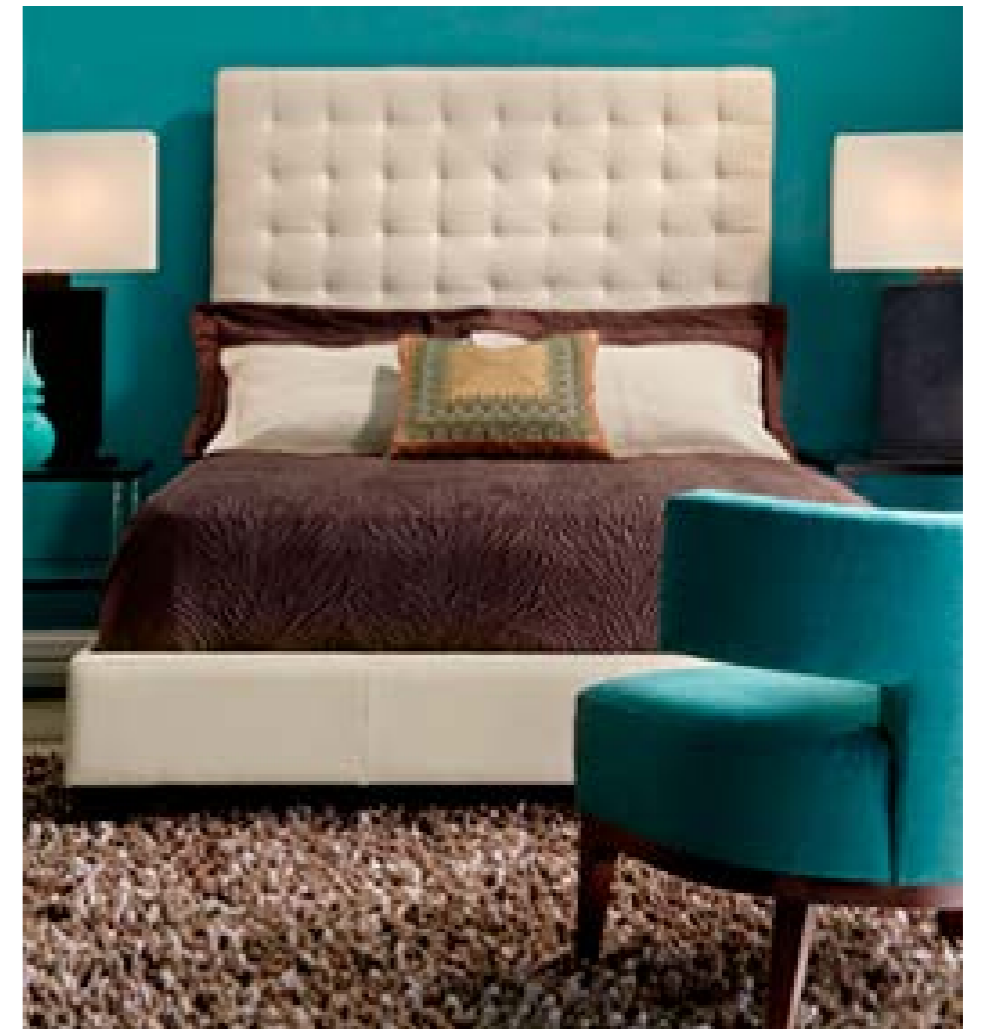
GOAL

Design a contemporary bench

CLIENT

[American Leather]

This design started as a new Bench design with Aluminium base. Simple lines made the design suitable for incorporation into a headboard SKU. Worked with external vendors for manufacturing and supply of Bench legs.



ZERO GRAVITY RECLINER

PROJECT

[Memory Foam Zero-Gravity Recliner]

TOOLS

SolidWorks

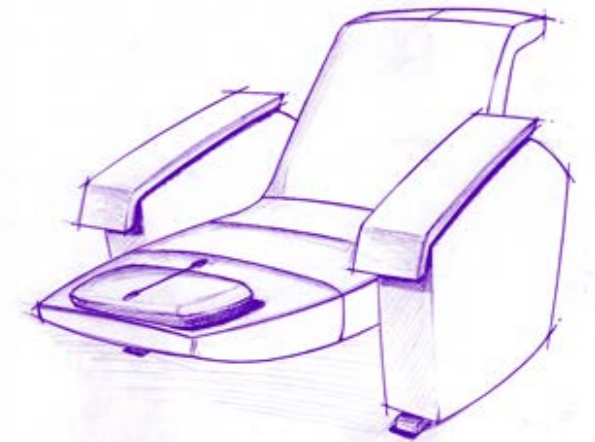
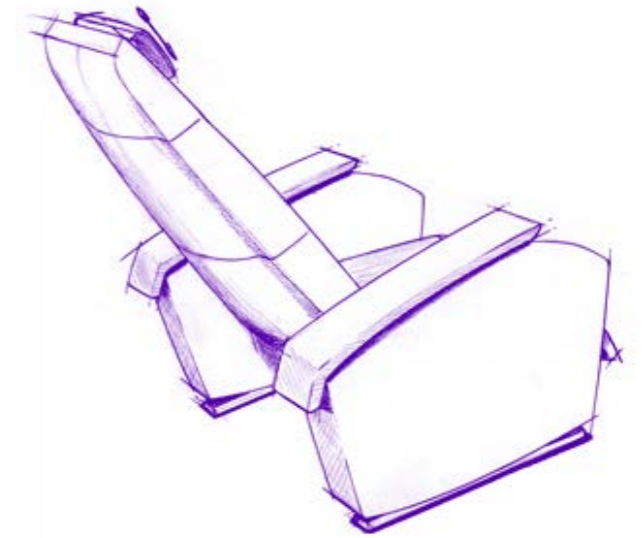
GOAL

Create a new style, zero gravity recliner

CLIENT

[American Leather]

Initial ideation sketches and final product. Cycle for this project included hand sketches, review of proposals, computer modeling, and full scale prototyping of concept. A total of 4 iterations were made throughout the development of this project.



patents

(additional list supplied upon request)

PATENT

PROJECT

[TELESCOPIC SPRING]

TOOLS

SolidWorks / KeyShot

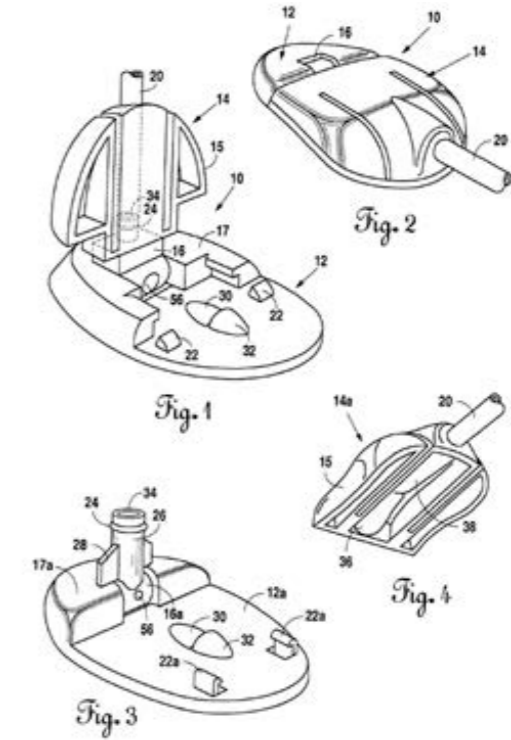
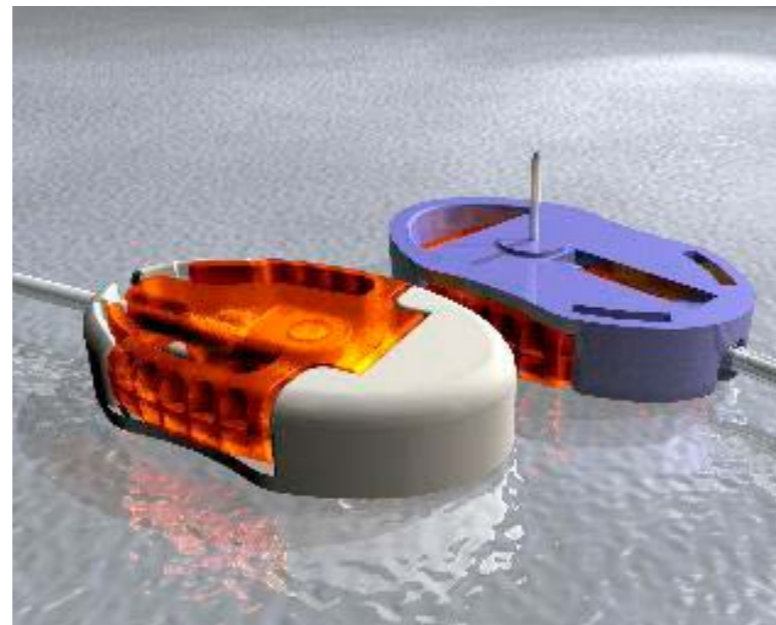
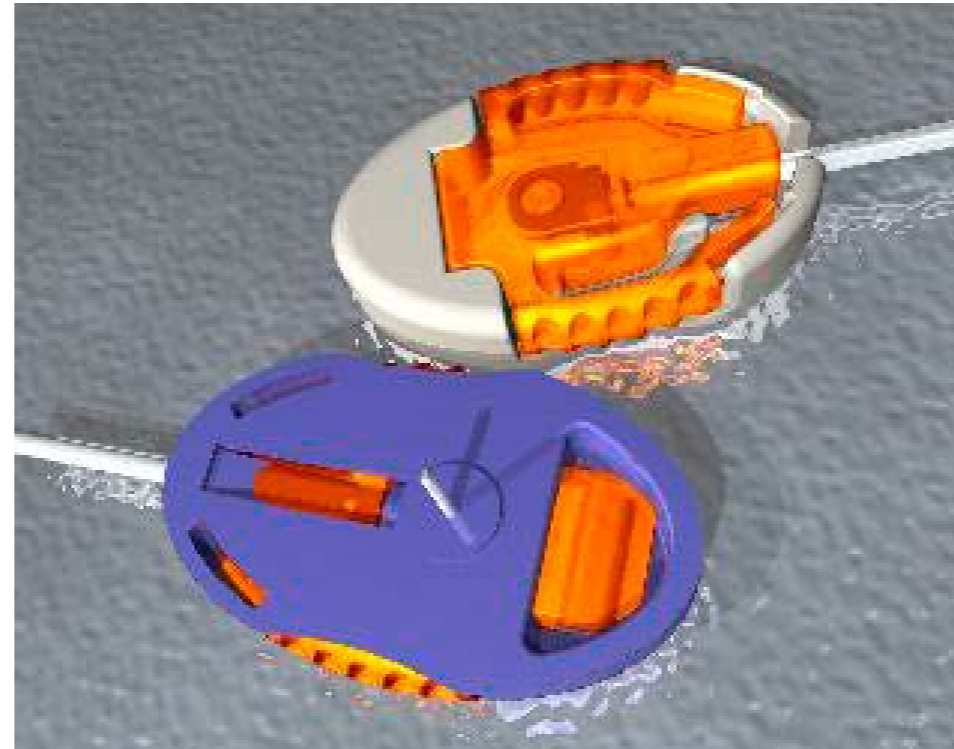
GOAL

Develop a new compact mechanical plunger system

CLIENT

[Fifty50]

I analysed existing In-Dwelling Patents in the market, and developed a new system which did not infringe in any existing claims for in-dwelling Infusion Patents. U.S. Patent Application filed June 29, 2001, and a non-Provisional Patent Application filed April 25, 2017, # US 9,629,956 B2. Worked in close collaboration with mechanical design team to determine mechanics of system, fluid dynamics, and functionality of device. Sourcing of medical grade components including needles, cannula, lure fitting, and seals were conducted.



PATENT

PROJECT

[TELESCOPIC SPRING]

TOOLS

SolidWorks / KeyShot

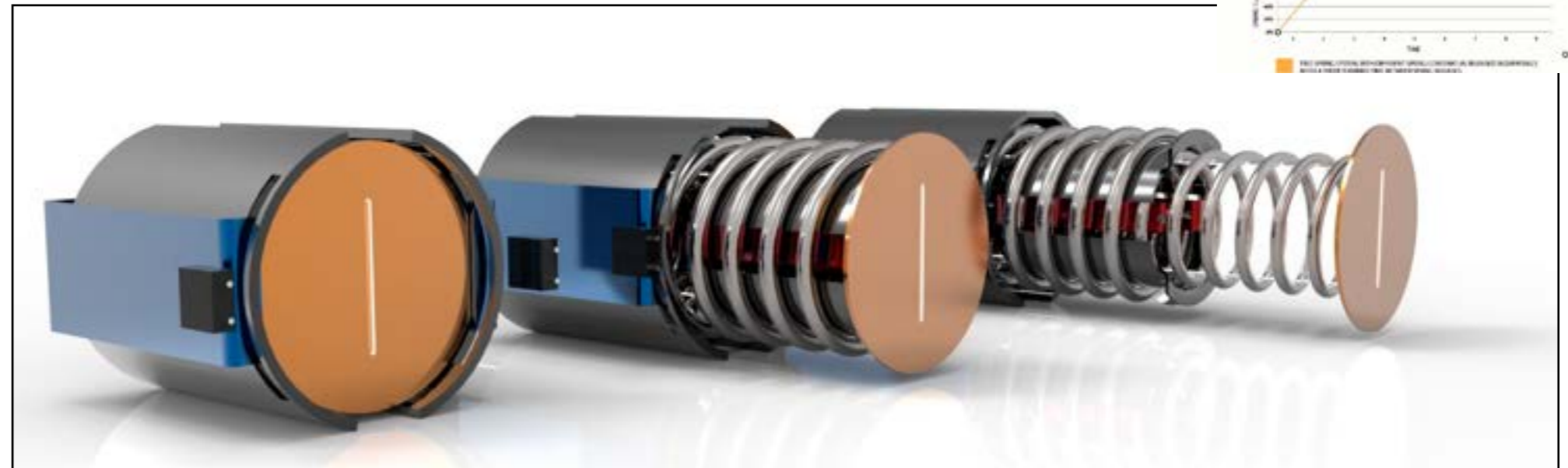
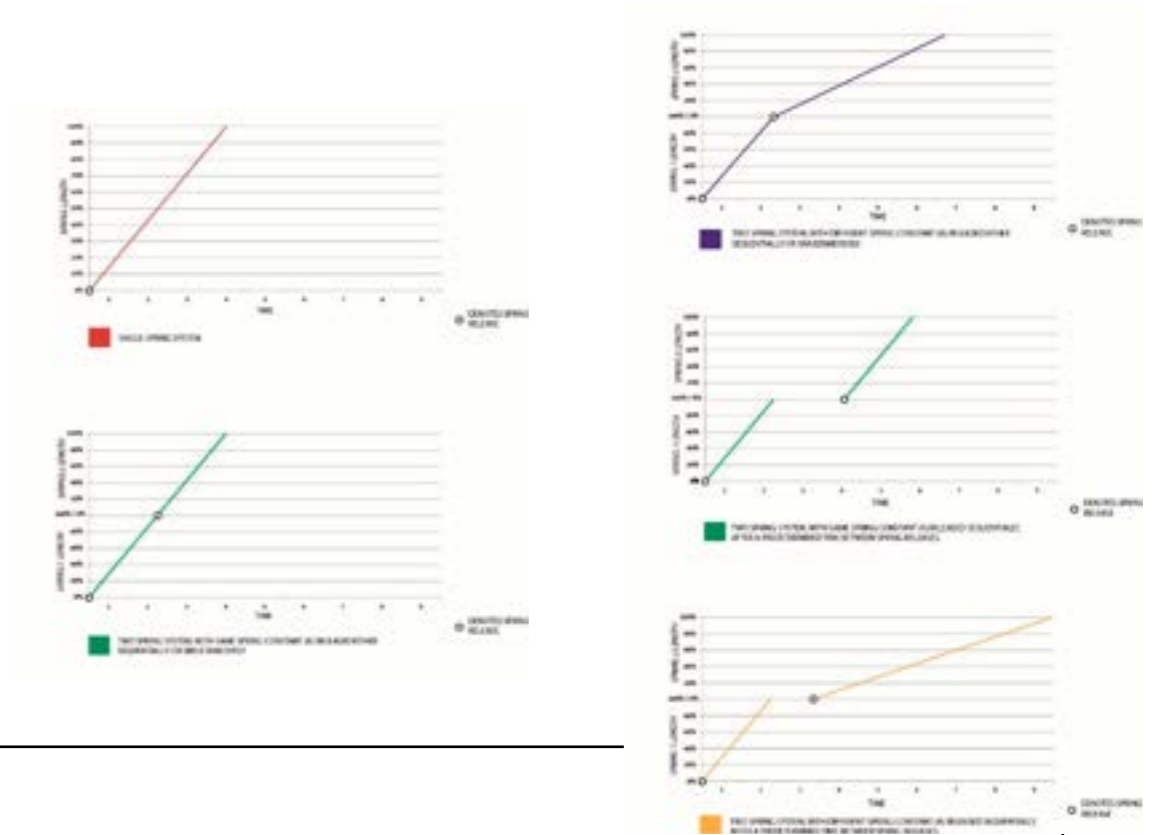
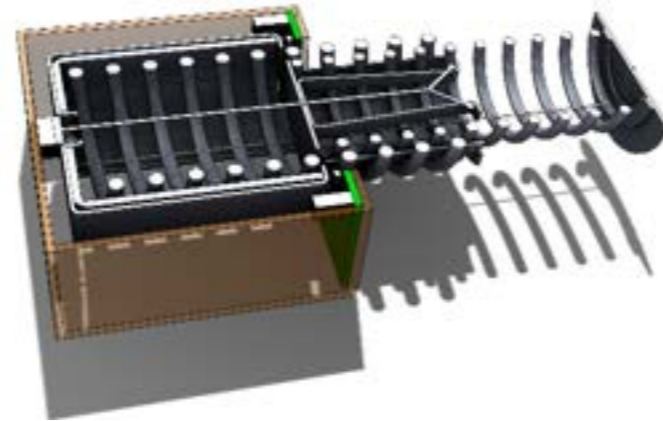
GOAL

Develop a new compact mechanical plunger system

CLIENT

[flex]

I developed a compact (telescopic) spring system in which a compressed spring is minimized in length by nesting two springs (one inside the other). Additionally, the system allows for multiple delivery profiles with a single mechanical (spring) actuation.



PATENT

PROJECT

[Wound Dressing Patent]

TOOLS

SolidWorks / SketchBook Pro

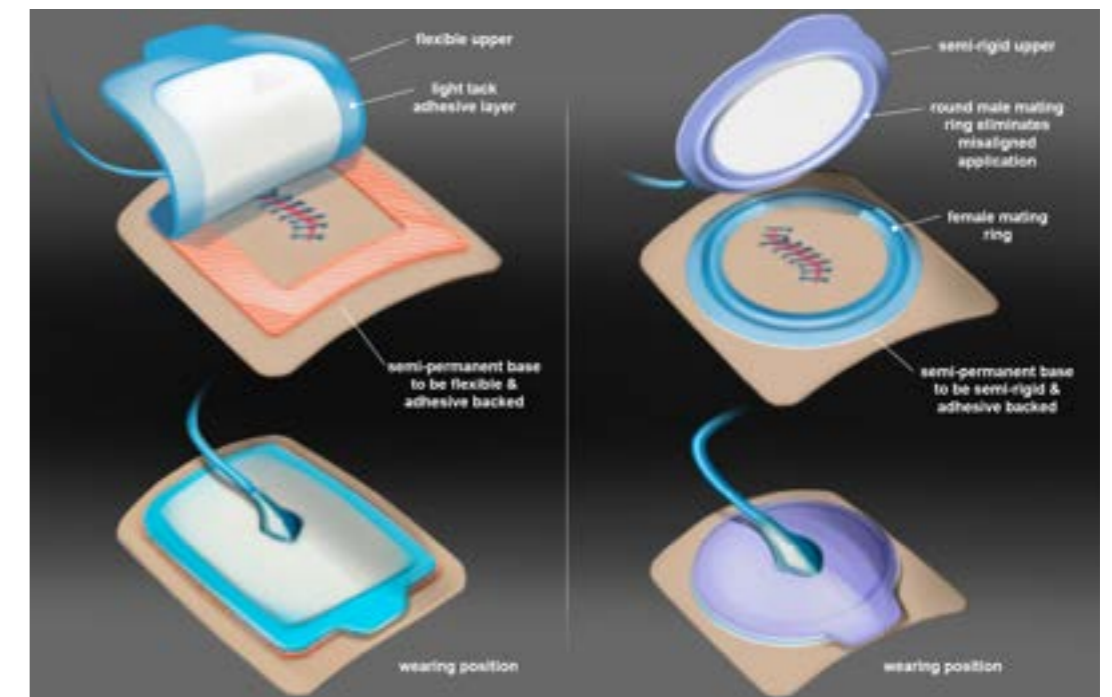
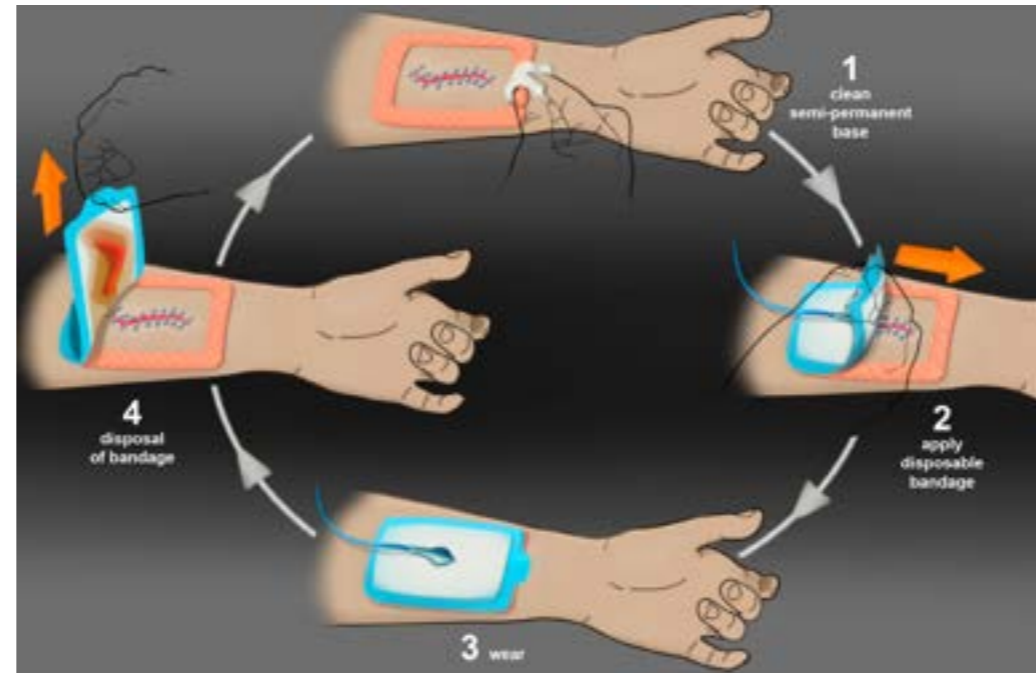
GOAL

Develop a pain free patch removal system

CLIENT

[flex]

I developed a patented dressing system for chronic wound treatment for assisting patients requiring daily gauze/bandage replacement. Concept takes advantage of differing adhesive properties to enable a pain-free bandage replacement.



concepts

(blue sky ideation)

MAGNIFYING LOUPES

PROJECT

[Mag]

TOOLS

Alias | wavefront

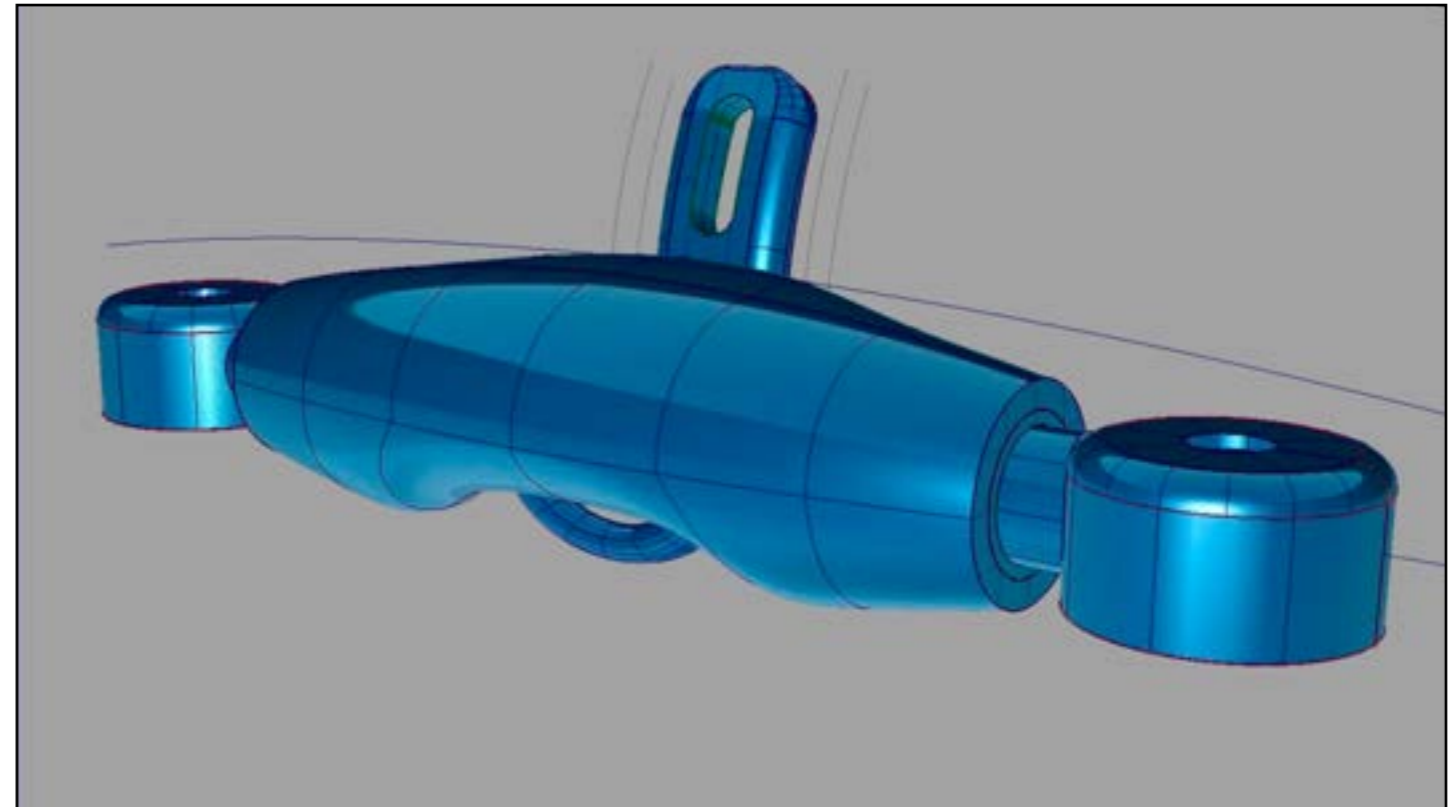
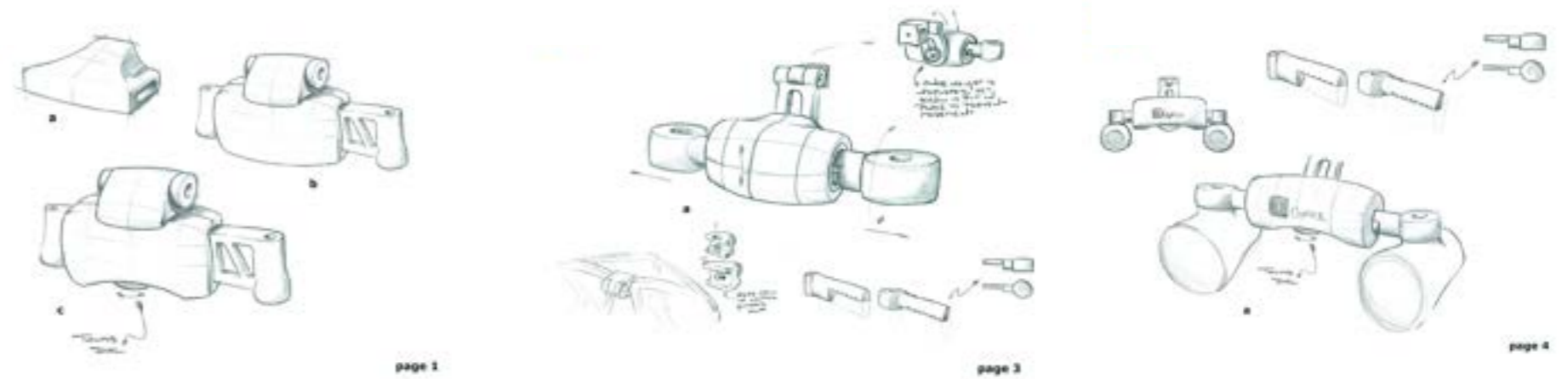
GOAL

Develop a loupe device for DDS

CLIENT

[IDM]

Ideation, functional research, UI, and initial product modeling used for feasibility, mechanical design and rapid prototyping.



SMART HOME

PROJECT

[Smart Home Control Center]

TOOLS

SolidWorks / KeyShot

GOAL

Present innovative solution to home-management pod.

CLIENT

[internal - flex]

Requirements: manufacturable with current technologies



INJENICO STAND

PROJECT

[Stand concepts for payment device]

TOOLS

SolidWorks / KeyShot

GOAL

Design a flexible stand for stores that will adjust viewing angles to adapt to end-user (shopper) needs.

CLIENT

[injenico]

Creative liberty



POC FLUID ANALYZER

PROJECT

[POC assay reading device]

TOOLS

SolidWorks / KeyShot

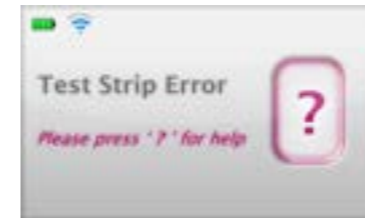
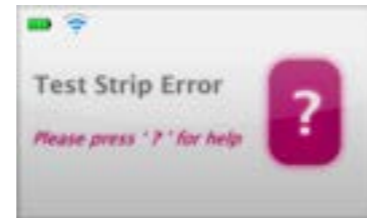
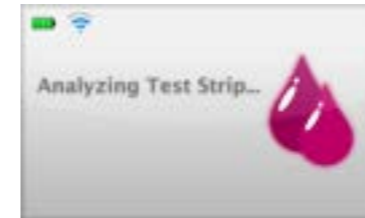
GOAL

POC Reader for urine and blood analysis that incorporates a simple UI and GUI. Device includes a bar code scanner for sample/patient tracking and interface with EMR Database. The device incorporated a Touch Screen, Wireless and LAN connectivity,

CLIENT

[Alere]

Collaborative work between ID, ME, EE, and Software.



HEADPHONES

PROJECT

[Headphone proposal]

TOOLS

SolidWorks / KeyShot

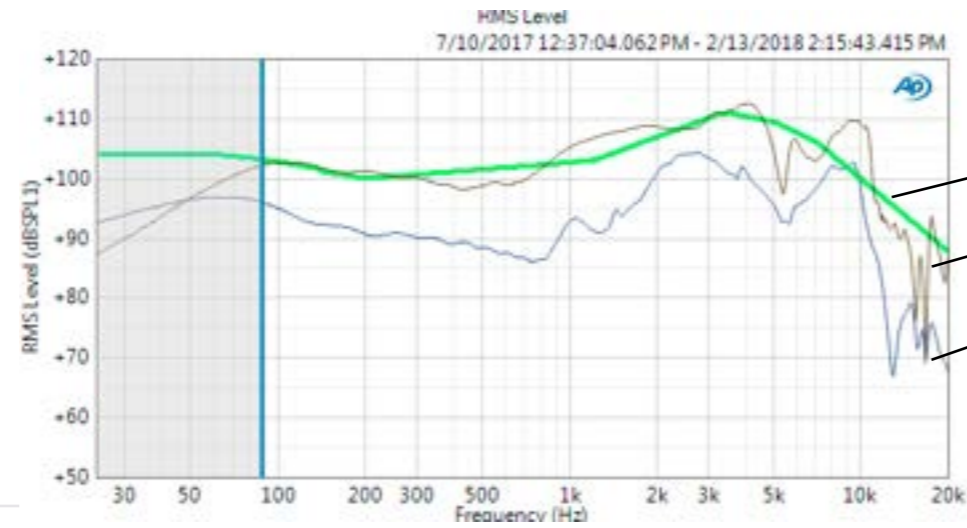
GOAL

Simplify Headphone - Reduce part count, simplify part modling, improve sound feedback/quality

CLIENT

[flex]

Collaborative work between ID, and Audio Engineer.



Harman Target Curve

flex Design

Competitor



COFFEE STATION

PROJECT

[Smart Cup]

TOOLS

SolidWorks / KeyShot

GOAL

Improve the brewing experience, and simplify the user experience with smart - connected appliances. The device presented offered wireless charging, temperature control, and wireless connectivity

CLIENT

[Nestlé / Nespresso]

Collaborative work between ID, ME, EE, and Software.



NETWORKING SYSTEM

PROJECT

[Rack System]

TOOLS

SolidWorks / KeyShot

GOAL

Present an innovative Rack System "cart".

CLIENT

[MSFT]

Requirements: 1.- Sealed during transportation, 2.- tamper proof, 3.- Doors flush with sides once installed, 4.- Structural Foam body, 5 - removable doors if needed.



ACTIVE SERVER X-CHANGE SYSTEM

PROJECT

[JAX]

TOOLS

SolidWorks / KeyShot

GOAL

HW monitoring and exchange.

CLIENT

[amazon]

Development of a new carting system which would allow for live exchange of server farm hard drives. Each HD is categorized and contains a location tracker for continuous monitoring



WEATHER STATION

PROJECT

[Weather Station Cabinet]

TOOLS

SolidWorks / KeyShot

GOAL

I was requested to supply form factor concepts to house an All-Weather station for the Air Force

CLIENT

[Lockheed Martin]

Collaborative work between ID, ME, and EE.



HANDHELD PAYMENT DEVICE

PROJECT

[injenico handheld]

TOOLS

SolidWorks / KeyShot

GOAL

PrPropose a new handheld Scanner/Payment device.

CLIENT

[injenico]

Requirements: creative freedom



VITALBAND

PROJECT

[Form Factor Study]

TOOLS

SolidWorks / KeyShot

GOAL

ideation

CLIENT

[Sensogram]

for factor studies - ideation



SMALL PARTICLE INHALER

PROJECT

[Microdose Inhaler]

TOOLS

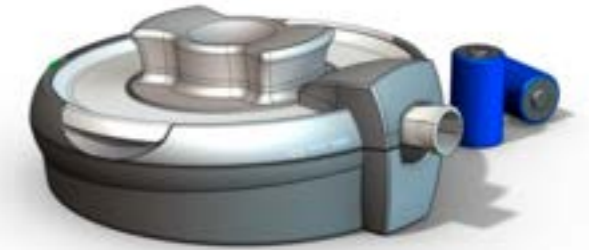
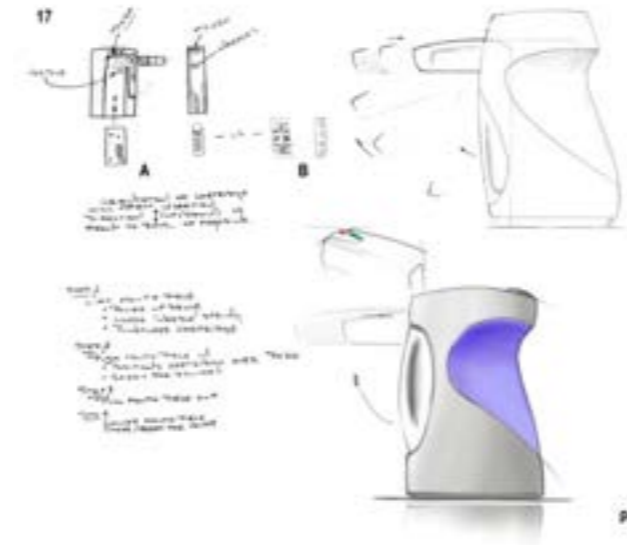
SolidWorks / KeyShot

GOAL

Develop a portable micro-particle inhaler for use in combat situations where Chemical Weapons might be present - Nerve agent antidote delivery (DOD). Collaborative work between ID, ME, and EE.

CLIENT

[microdose thrapeutics]



FITNESS BAR & TABLET

PROJECT

[Universal mount fitness Bar and tablet]

TOOLS

SolidWorks / KeyShot

GOAL

[Pat. Pending] Create a new fitness tablet with Universal mounting capabilities - Automatic detection of where the device is located (treadmill, cycle, desk, wall, floor) using AI and mechanical/electrical connections. The device will automatically switch to the appropriate exercise mode depending on location.

CLIENT

[flex internal patent development]

Creative liberty



HUD DISPLAY

-PRISM-

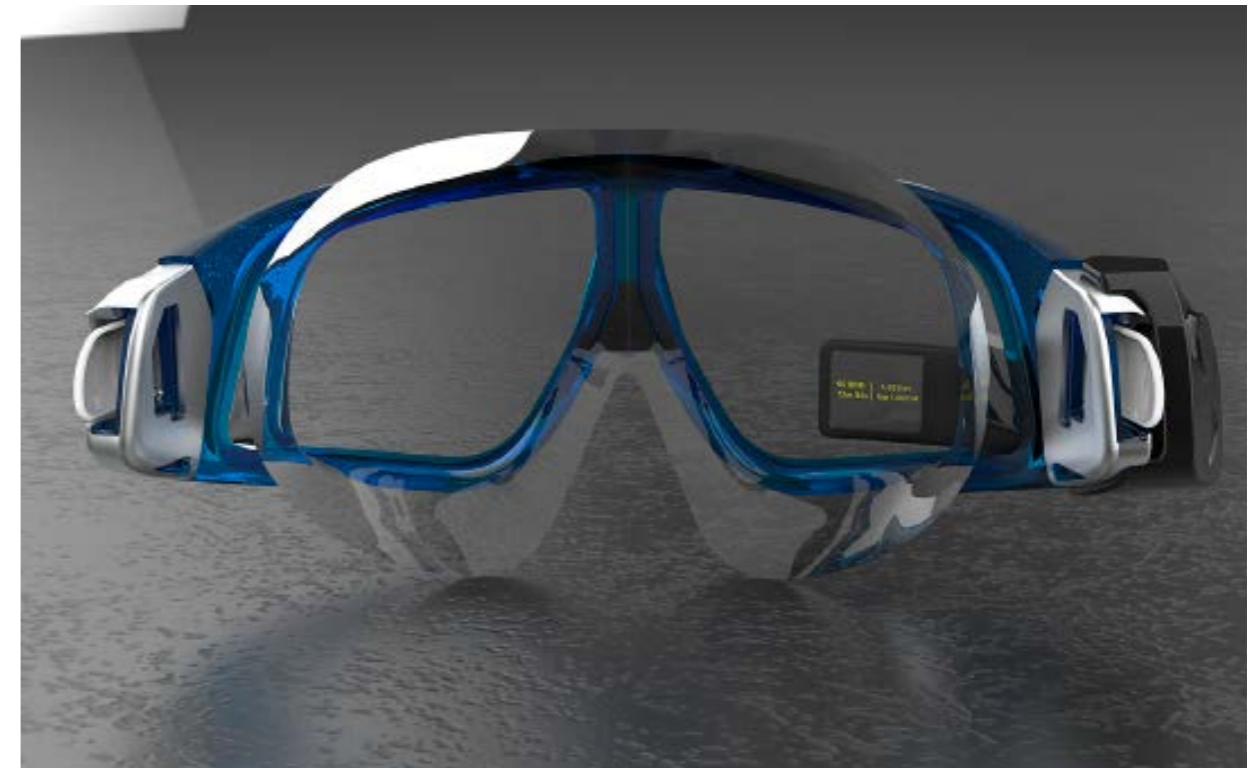
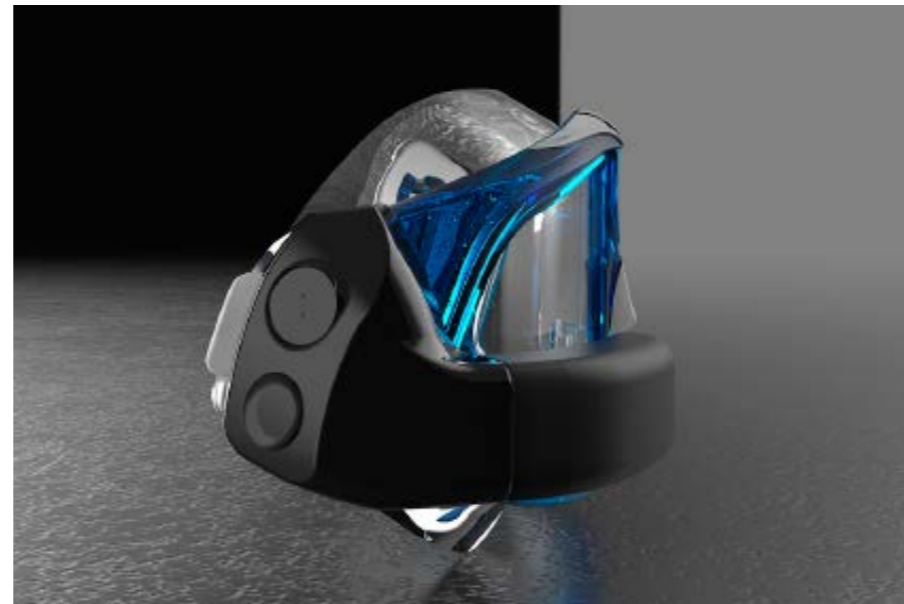
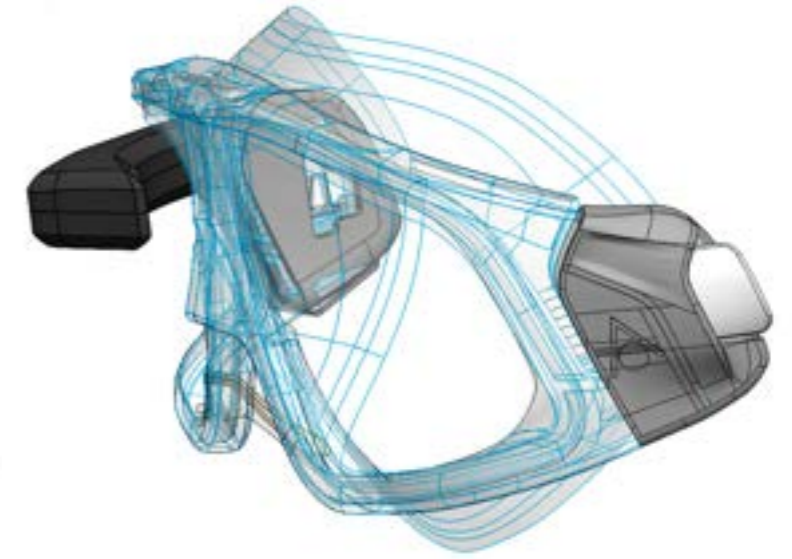
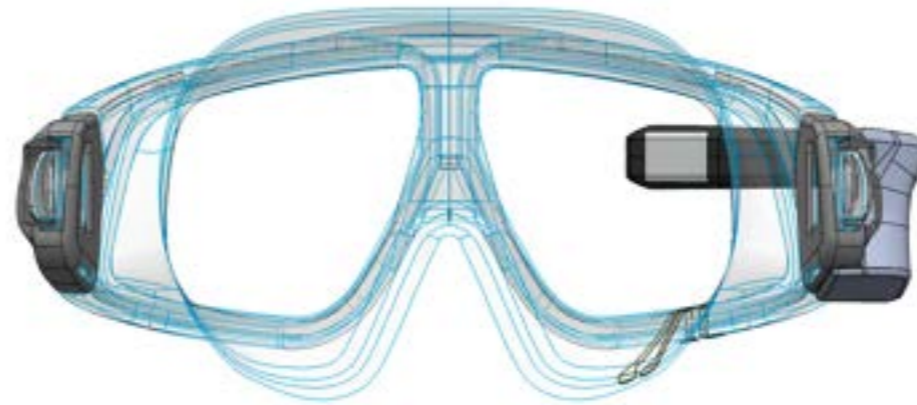
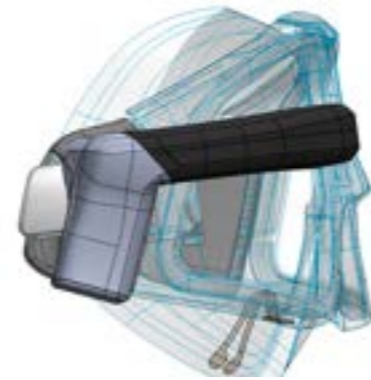
GOALS - DESIGN B:

- 1.- Minimal changes to existing mask components
- 2.- Detachable electronic housing
- 3.- Simple UI/UX
- 4.- Rechargeable battery setup

Concept Details:

- 1.- Electronics body (sealed):
 - a - secured to mask with hook/set-screw
 - b - display outward facing towards prism arm
- 2.- Prism Arm:
 - No electronics
- 3.- Capacitive touch controls:
 - a - Single TAP scroll
 - b - TAP and hold select/Start/Stop

Off the shelf clamping mechanism



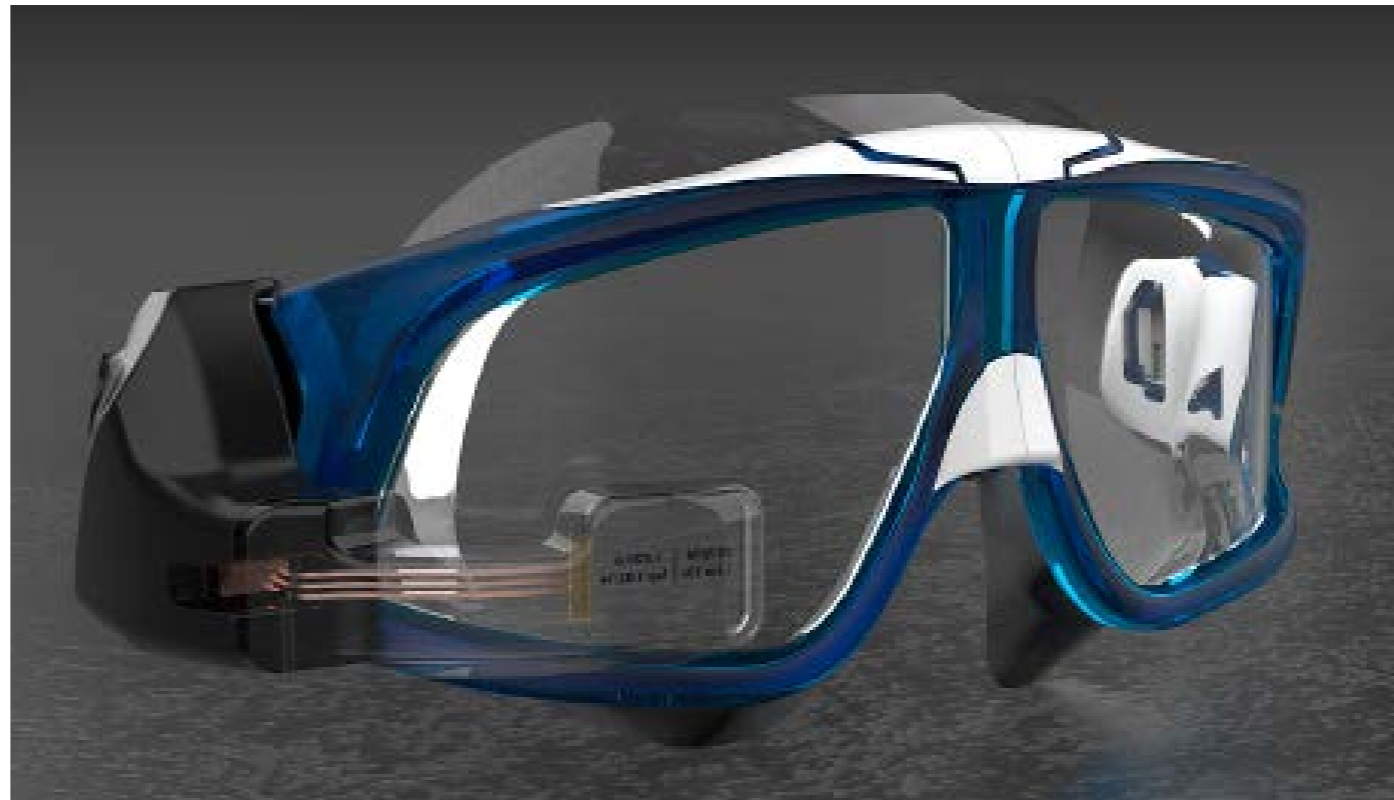
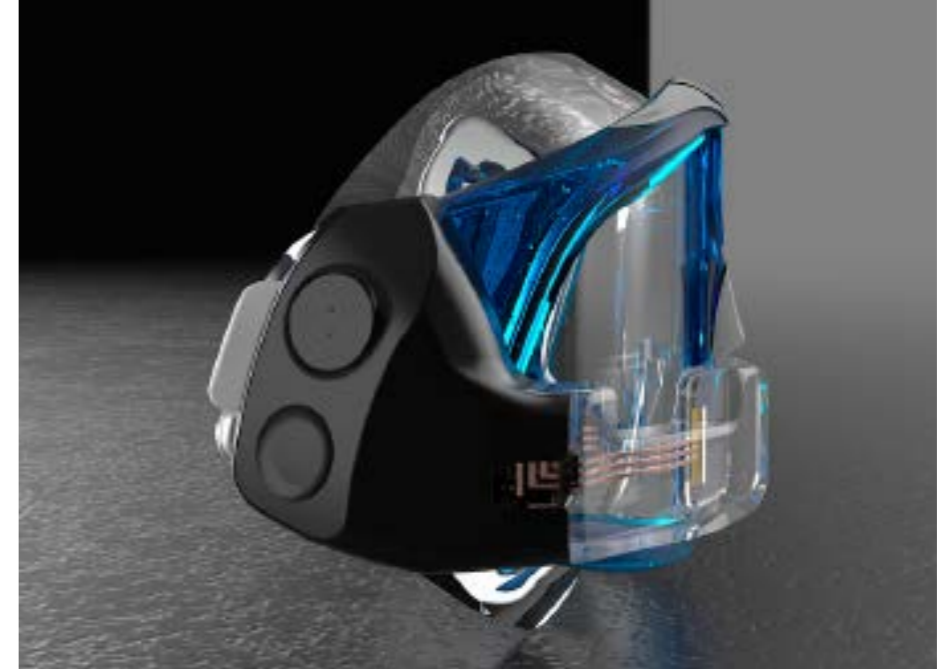
HUD DISPLAY

GOALS - DESIGN B:

- 1.- Minimal changes to existing mask components
- 2.- Detachable electronic housing
- 3.- Simple UI/UX
- 4.- Rechargeable Battery Setup

Concept Details:

- 1.- Electronics body (sealed):
 - a - secured to mask with hook/set-screw
 - b - IME traces in clear housing arm
- 2.- Display:
 - a - OLED on clear backing
- 3.- Capacitive touch controls:
 - a - Single TAP scroll
 - b - TAP and hold select/Start/Stop



LIGHT THROUGH METAL

PROJECT

[visualizing Light through Metal]

TOOLS

SolidWorks / KeyShot

GOAL

visualization of metal perforation technology

CLIENT

[flex]

Requirements: creative freedom



THERMOSTAT

PROJECT

[thermostat]

TOOLS

SolidWorks / KeyShot

GOAL

Propose a new approach to thermostat hmi.

CLIENT

[flex]

Requirements: Incorporate light and touch through metal feature



THERMOSTAT

PROJECT

[thermostat]

TOOLS

SolidWorks / KeyShot

GOAL

Propose a new approach to thermostat hmi.

CLIENT

[nVent]

Requirements: creative freedom



HANDLE HMI

PROJECT

[hmi & controls proposal]

TOOLS

SolidWorks / KeyShot

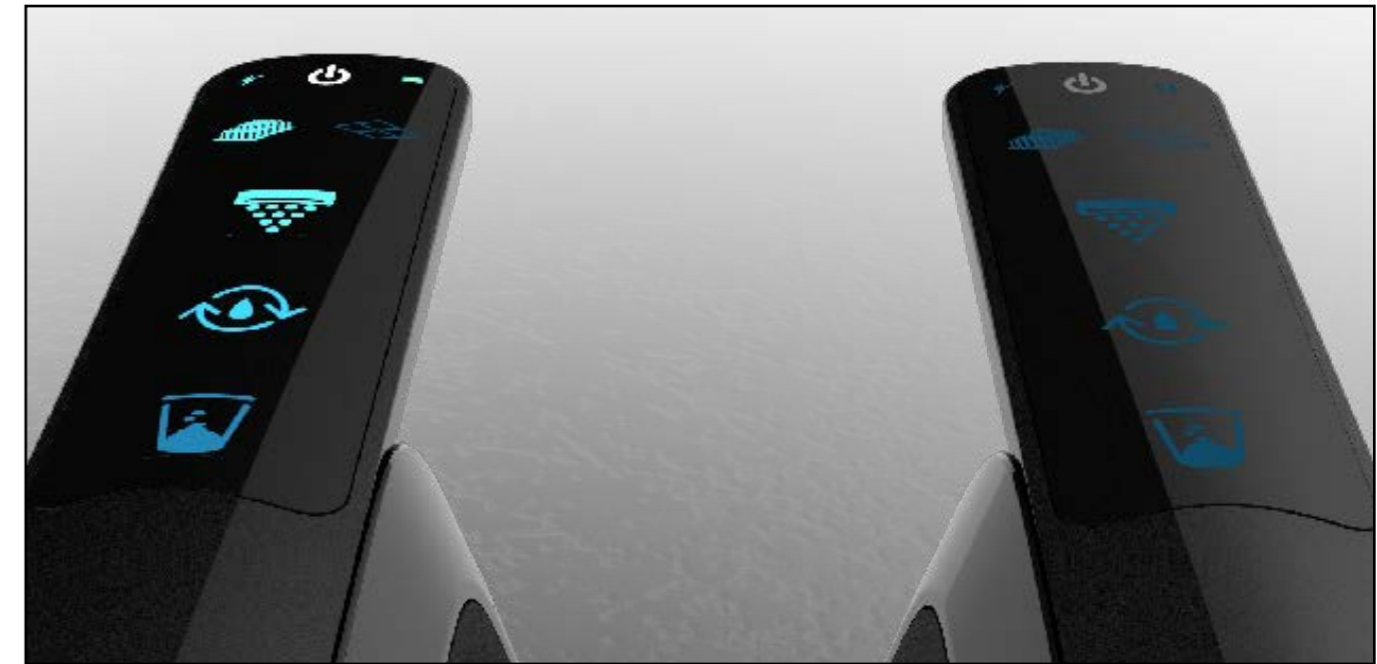
GOAL

Incorporate a new HMI and Control setup into an existing handle supplied by the customer. Controls need to be intuitive, clean, and appear as a cohesive design with current form factor

CLIENT

[Bissell]

Creative liberty



HAIR STRAIGHTENER

PROJECT

[update HMI and features]

TOOLS

SolidWorks / KeyShot

GOAL

Propose a new approach to HMI and technology features for upcoming year products - capacitive touch, lighting, and temperature control.

CLIENT

[ghd]

Requirements: creative freedom



HOME SECURITY

PROJECT

[update HMI and features]

TOOLS

SolidWorks / KeyShot

GOAL

Propose a new smart doorlock hmi

CLIENT

[flex]

Requirements: creative freedom



LOTION FORMULATION DISPENSER

PROJECT

[Medicated lotion dispenser]

TOOLS

SolidWorks / KeyShot

GOAL

Create an appealing lotion dispenser for home use

CLIENT

[flex]

Requirements: creative freedom



Creating an exceptional device that appeals to users and clients takes more than just a good idea. It takes a creator – a person, who combines artistic appeal with functionality, and can convert an exceptional idea into a manufacturable product.

AndrewPNelson@live.com 214.632.2670