

# Dilan Silva

## Visual Resume

March 7, 2014

# ***Agenda***

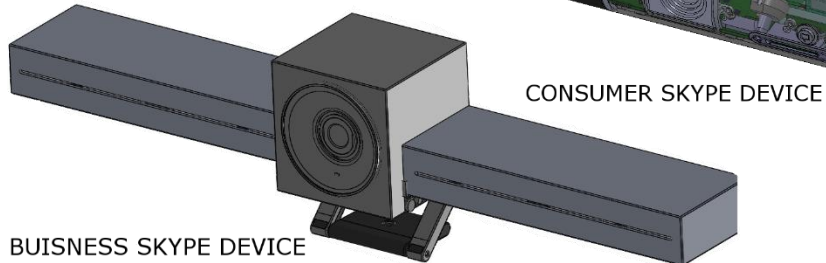
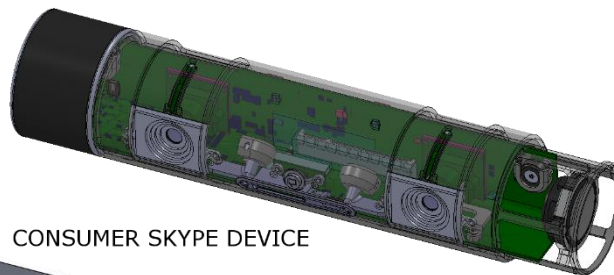
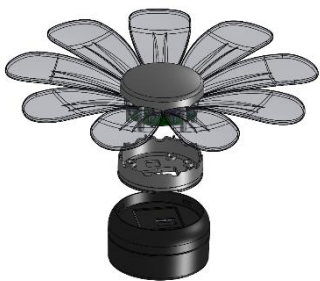
- Overview of companies/industries worked for
- Favorite projects

## **Industries:**

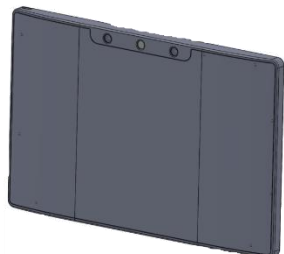
Consumer Electronics  
Industrial/Construction  
Military/Aerospace  
Transportation  
Medical  
R&D  
Education

## **Companies:**

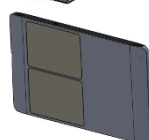
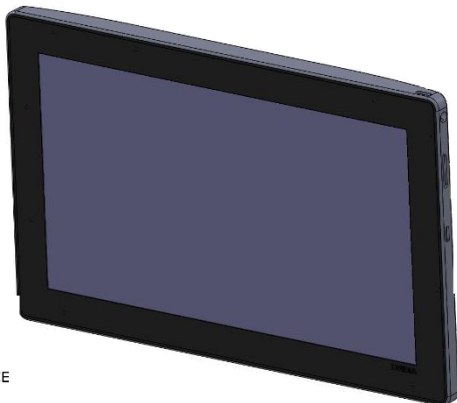
Innovative Converged Devices (ICD)  
ATW (Around the World Technologies)  
Washington State University Vancouver  
Spacelabs Healthcare  
Intel  
Novellus  
Clark Community College  
CAE Northwest/Hawk Ridge Systems  
MTI Micro  
Talla Tech  
LifePort, Inc  
InFocus Corporation  
Motile Corporation  
Planar Systems  
CleanPak International



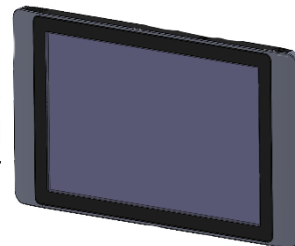
BUISNESS SKYPE DEVICE



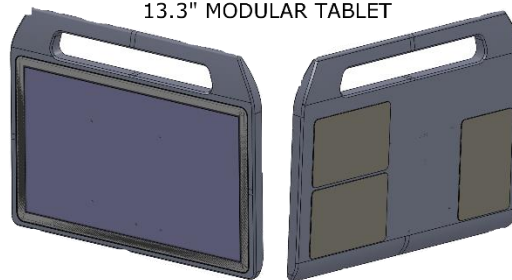
TEGRA 3 REFERENCE DESIGN  
10.1" TABLET  
10 POINT TOUCH TOUCHSCREEN  
REAR FACING 3D CAMERAS  
DUAL PC CARD INTERFACE  
BECAME 1ST GEN MICROSOFT SURFACE



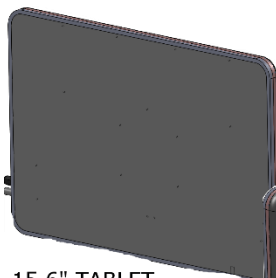
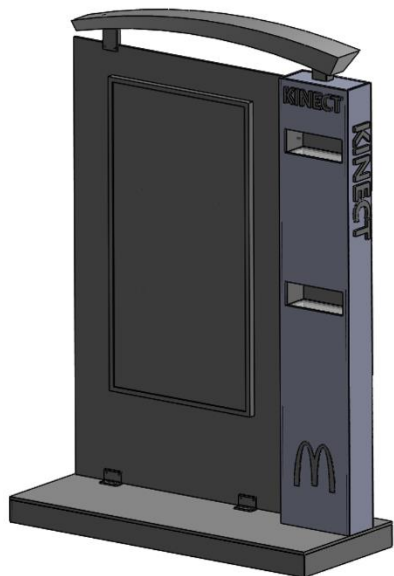
10.1" TABLET  
- MODULAR  
- IP67



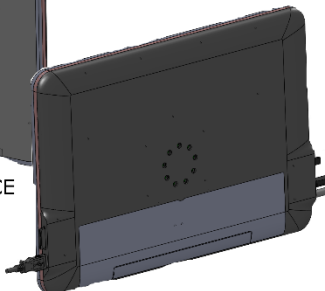
13.3" MODULAR TABLET



7" TABLET



15.6" TABLET  
- KITCHEN APPLIANCE  
- MAGNETIC BASE



## Industries:

**Consumer Electronics**

Industrial/Construction

Military/Aerospace

Transportation

Medical

**R&D**

Education

## Companies:

**Innovative Converged Devices (ICD)**

ATW (Around the World Technologies)

Washington State University

Vancouver

Spacelabs Healthcare

Intel

Novellus

Clark Community College

CAE Northwest/Hawk Ridge Systems

MTI Micro

Talla Tech

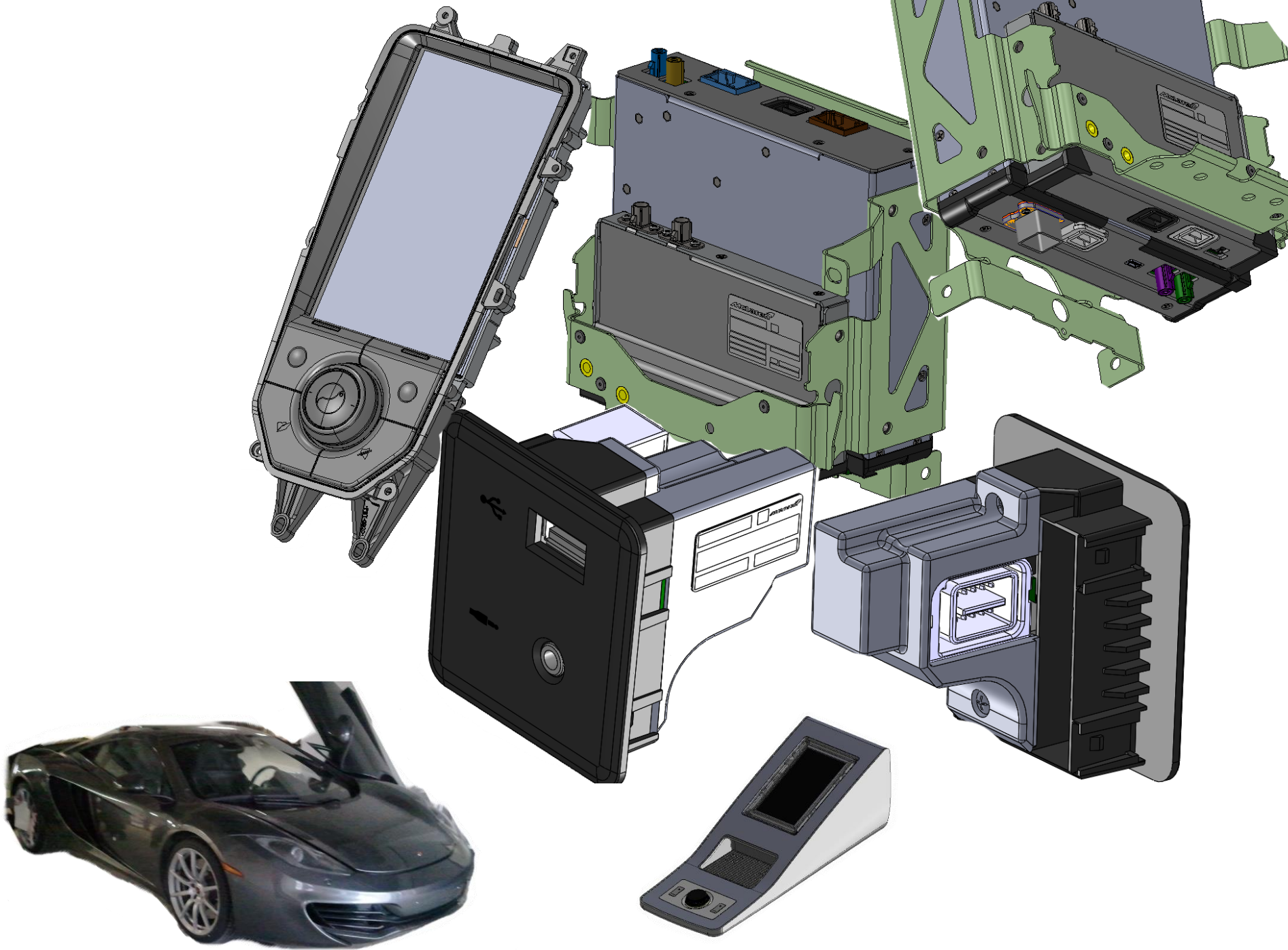
LifePort, Inc

InFocus Corporation

Motile Corporation

Planar Systems

CleanPak International



## **Industries:**

Consumer Electronics  
Industrial/Construction  
Military/Aerospace

## **Transportation**

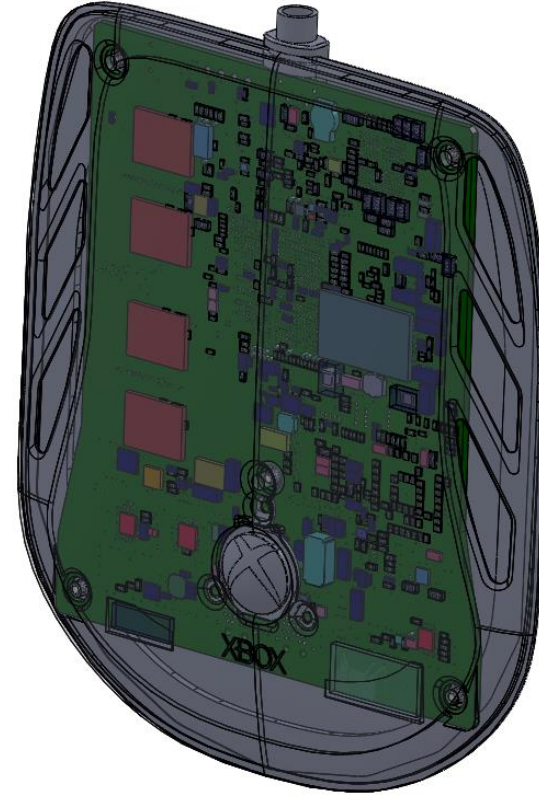
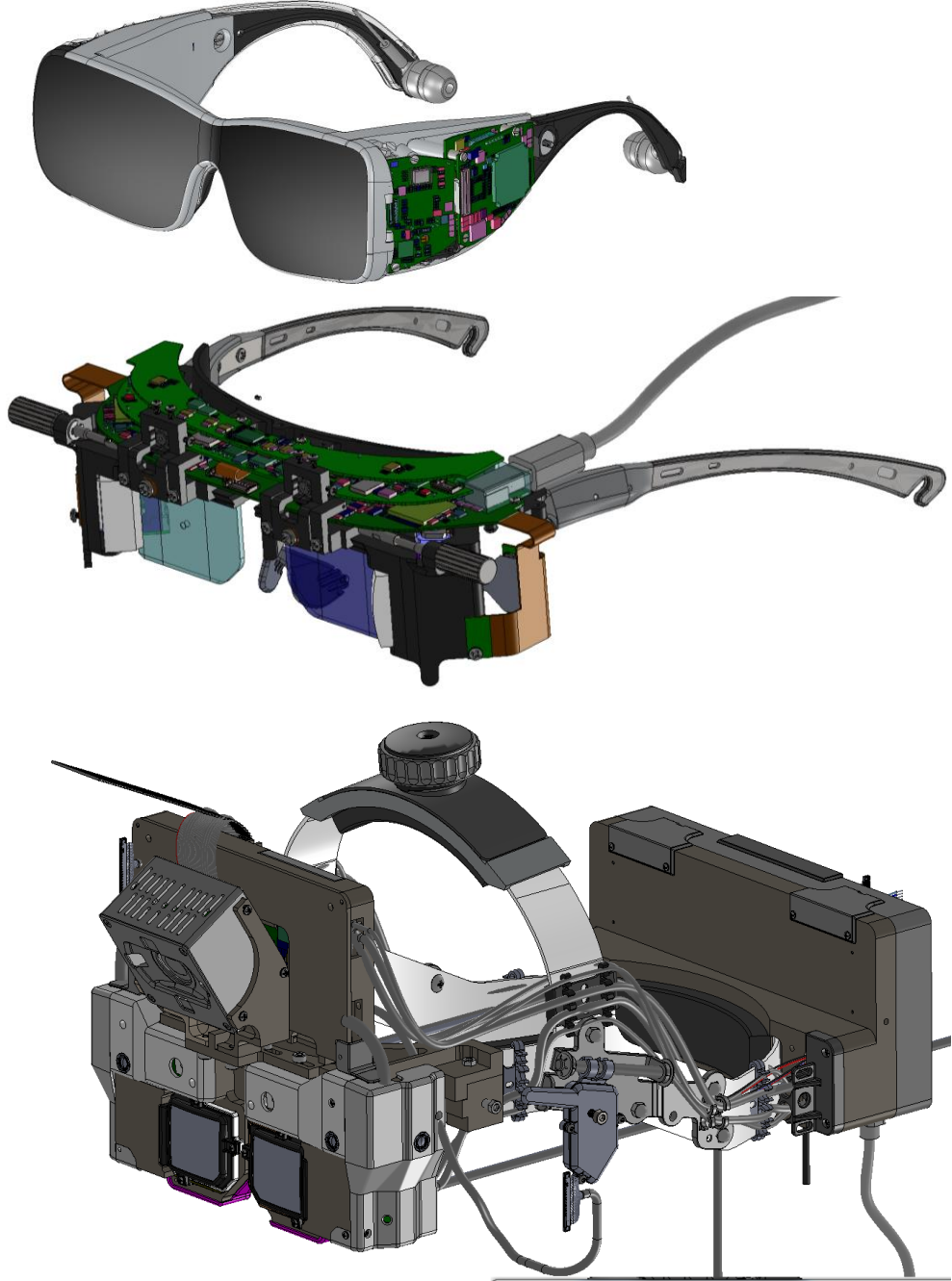
Medical  
R&D  
Education

## **Companies:**

### ***Innovative Converged Devices (ICD)***

ATW (Around the World Technologies)  
Washington State University  
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## Industries:

### **Consumer Electronics**

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### **R&D**

Education

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Below is the list of products I designed while working at ICD

Project	Description	01_2009	01_2010	02_2010	03_2010	04_2010	01_2011	02_2011	03_2011	04_2011	01_2012	02_2012	03_2012	04_2012	01_2013	02_2013	04_2013	01_2014	02_2014
<b>Payberry</b>	<b>Point of Sale (CC swipe phone)</b>																		
Ultra	7" tablet																		
Vega	15.6" tablet																		
Gemini	11.6" tablet																		
Battery	Standardization																		
Dock	dock for 15.6" tablet																		
<b>Albatross</b>																			
Glasses	3D glasses																		
Puck																			
Tiera	test headset device																		
TV																			
Floob	ICD Branded TV device																		
Raster Magic	Skype Device																		
D Telekom	2 variations of Remote																		
T30	Tegra 3 tablet																		
<b>McLaren</b>																			
Display	touchscreen display unit																		
I-Din	Tegra 2 head unit																		
Auxiliary Unit	USB/3.5mm Audio input																		
Capacitive Touch Display	Redesign of Touchscreen display																		
<b>Magic Friends</b>																			
Wand	Kid's Harry potter wand																		
Flower	Flower petals driven by LEDs																		
Escher	3D glasses V2																		
ICD-Branded	Packaging of McLaren for Trade shows																		
<b>Tegra Modular</b>																			
Tablet 7"	Tuna																		
Tablet 7"	Gunther																		
Tablet 7"	Cod																		
Tablet 10"	Mako Shark																		
Tablet 10"	Thresher Shark																		
Tablet 13"	Killer Whale																		
Anti-Gravity	Redesign of Customer's version of 3D glasses																		
Kinect	use of Kinect for Kiosk																		
Dell Battery Extension	external battery pack for Workstation laptop																		
PDDs	mounting of alternative LCDS panel for escher																		
Weston	Redesign and weight savings of Customer's version of 3D glasses																		
Test Bench 3	Development testing platform																		
IFocus	iphone camera attachment																		
Texas																			
SonOFGravD																			
Gravity C2	Redesign of Weston v1																		
gravity C3	Redesign of Gravity c2																		
Roombox	Skype device for businesses																		
<b>Sorenson</b>																			
Ludwig	kitchen "tablet" for deaf																		
MPU	controller unit for TV mounted Camera for deaf																		
RCU	Camera unit mounts on TV connects to controller unit																		

## Industries:

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Industrial/Construction

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**R&D**

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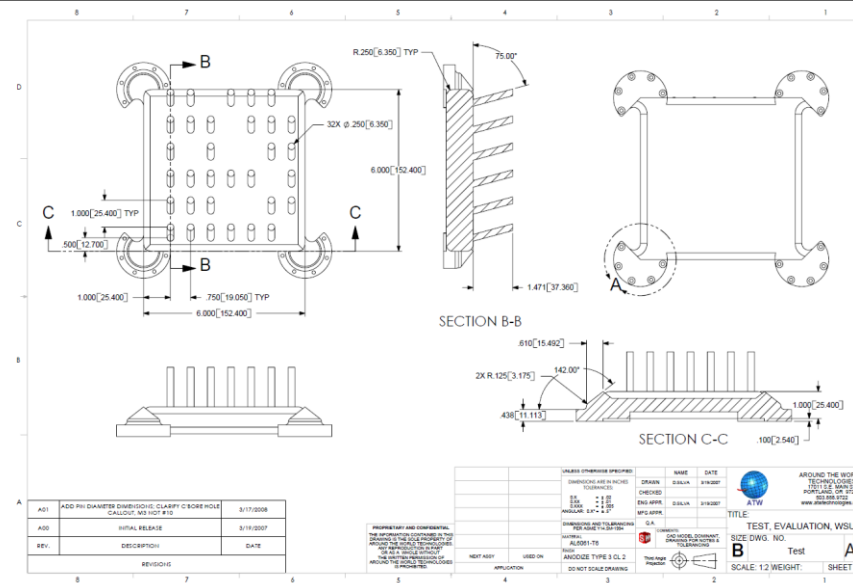
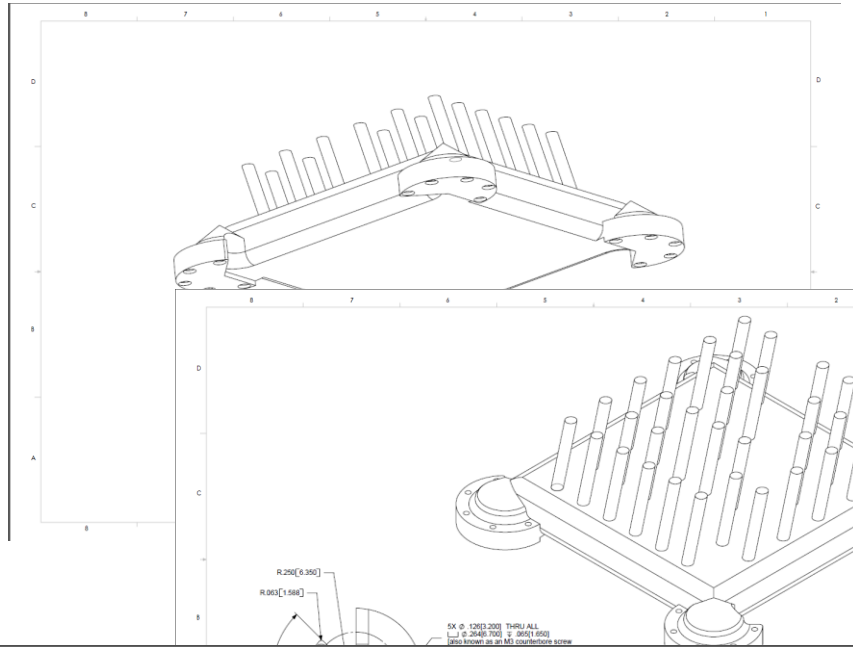
LifePort, Inc

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Planar Systems

CleanPak International



**Instructions:**

1. Model the outer flange, using the pdf of the drawing (file name: *AM6204 Outer Flange Drawing.pdf*)
  - a) I have included the part as a dumb solid[it contains no features], for you to measure and see the direction I want you to go, (file name: *am6204outer\_flange.sldprt*)
  - b) name the file "*outer\_flange.sldprt*"
2. Create part configurations for the "*columndriver.sldprt*" & "*row driver.sldprt*"
  - a) the two configurations should be
    - Bent
    - Flat
3. From the assembly of the glass (file name: *6\_25 Glass Assy.sldasm*),
  - a) create two configurations, in which you are using the parts in #2.
    - Bent
    - Flat
  - b) There should be a quantity of 4 "*columndriver.sldprt*" and a quantity of 8 "*row driver.sldprt*"
  - c) the two assembly configurations should have the respective configurations of the column & row drivers.
4. Create a master assembly of these parts, giving it the file name *AM6204 Master Assy.SLDASM*.

inner frame(file name)  
 support ring(file name)  
 glass assembly(file name)  
 (4) circuit boards(file name)  
 AM6204\_right\_circuit\_board.sldprt  
 outer flange(file name)

- Use the accompanying files together.
- Apply mates to all parts.
- As a note: I should be made!

5. Once you have created the assembly, create a report similar to the ones in the class.
  - a) You should be using the assembly configurations.
  - b) I'd prefer you use top-down views.
  - c) I've included a drawing of the assembly configurations.
  - d) Name the parts "AM6204 Master Assy.SLDASM".

6. After you have created the assembly, create a report similar to the ones in the class.
  - a) Save all files in a zip file.

**Instructions for Project 2:**

1. Create concept drawing of a product you would like to see being sold today.
2. Scan concept drawing and import into SolidWorks, creating 3D geometry off drawing
  - a) This is similar to the example in class of the remote control
3. go online and do some market research for the product you are designing
  - a) if product is completely new find things that are similar to what you've drawn
  - b) create a report with the following information:
    - What are the other products that your product would compete with?
    - Who are your competitors?
    - Feature list: What are the features of your product
    - Comparison of the feature list of your product with the other products it would be competing with
    - Market
      - Who is your intended audience?
      - What are the demographics for your intended audience, i.e.
        - what age group?
          - 15 – 18
          - 18 – 25
          - 26 – 35
          - 36 – 45
          - etc.
        - Male or female
        - What percentage of your intended audience already uses your intended competitors
      - Price range:
        - competitors pricing
          - will you undercut the competitor
          - what is your expected lead in the market with this new product before the competition catches on and adjusts to what you are doing?
        - What is the potential revenue?
          - What percentage of the market do you intend to sway?
            - i.e., ipods have 15 – 25% of the market share
            - My MP3 player would have to be in a niche market, specialized for outdoors/active people.
          - What is your anticipated percentage of the market, taking into account the previous bullet.
            - 0.005% of the market
            - What would be your potential revenue off this percentage?
              - i.e., 0.005% equates to 10K users \* \$30/unit = \$300K

4. Create a rendered image that marketing can use to get people excited about.
5. Create a potential Bill of Materials for all the parts needed to make this product work
  - a) i.e., for an MP3 player:
    - screen/storage, casing, battery, headphones, circuit board, any kind of paint
    - give an educated price for each item in your BOM, approximating cost at what your anticipated percentage of the market would be
      - i.e., screen @ quantity of 1 = \$100; @ quantity of 10K = \$50
  - b) Create an exploded view of the assembly, with BOM & balloons
6. Create a report that contains all this information, organized with a table of contents, and a cover page
  - a) This should be an electronic copy in either PDF or Word format (preferably PDF).

Good Luck!!!!  
 Have a great Summer!!!!

# Industries:

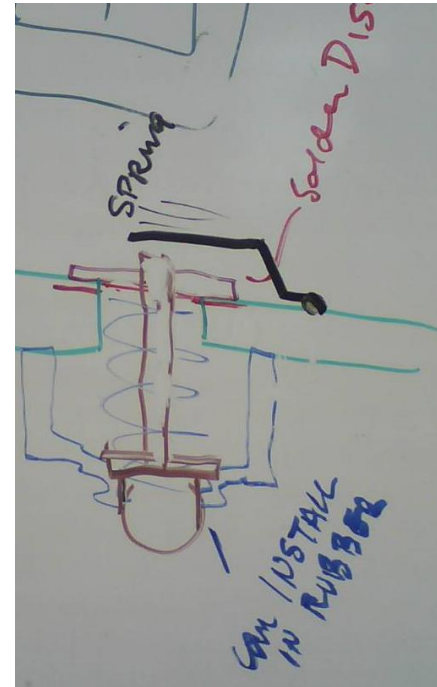
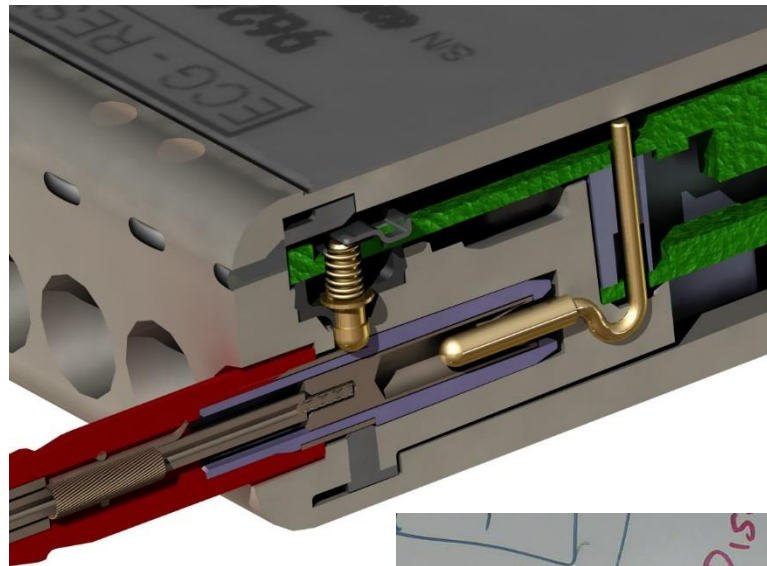
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- Industrial/Construction
- Military/Aerospace
- Transportation
- Medical
- R&D

# Education

# Companies:

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## **Medical**

R&D  
Education

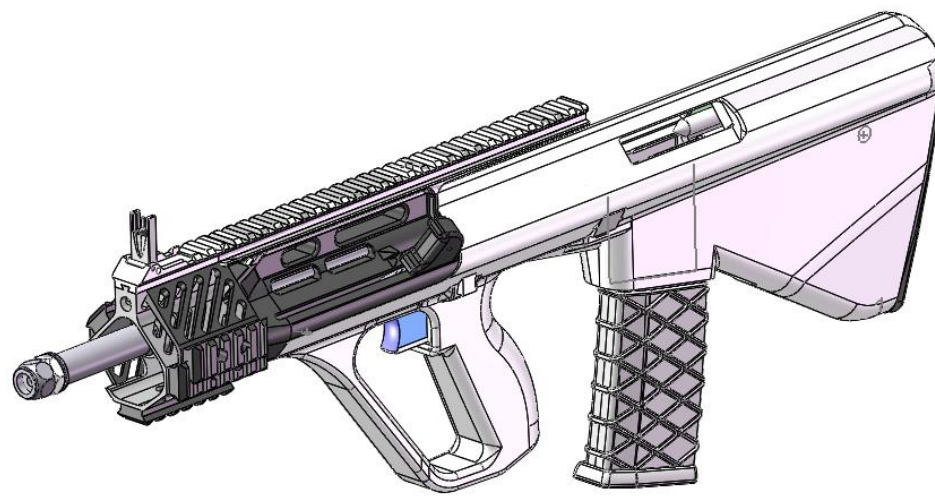
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## **Spacelabs Healthcare**

Intel  
Novellus  
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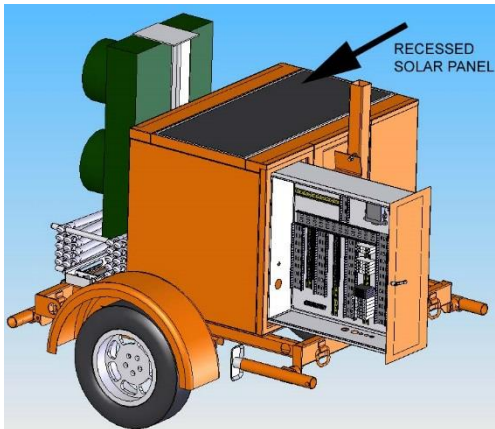


## Industries:

Consumer Electronics  
Industrial/**Construction**  
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Medical  
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Education

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## Industries:

Consumer Electronics  
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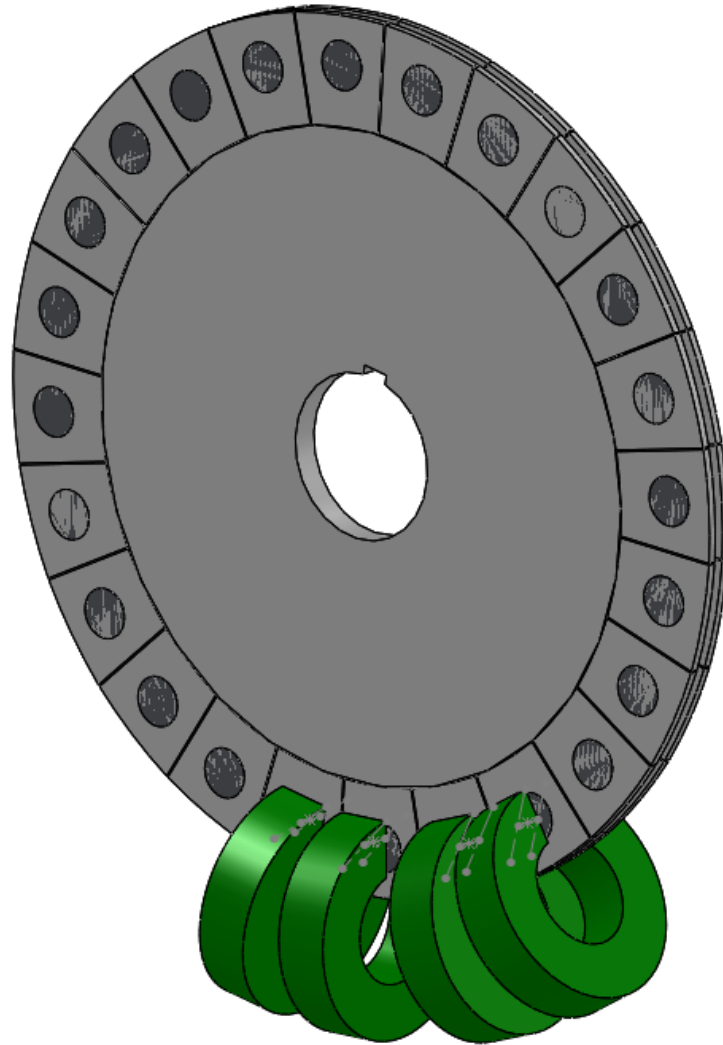
### ***InFocus Corporation***

Motile Corporation

Planar Systems

CleanPak International





## Industries:

Consumer Electronics  
Industrial/Construction  
Military/Aerospace

### **Transportation**

Medical

### **R&D**

Education

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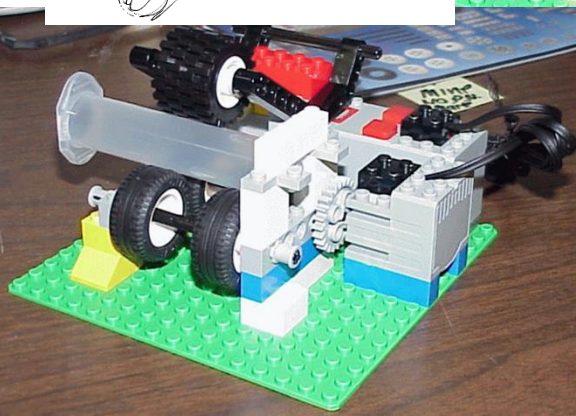
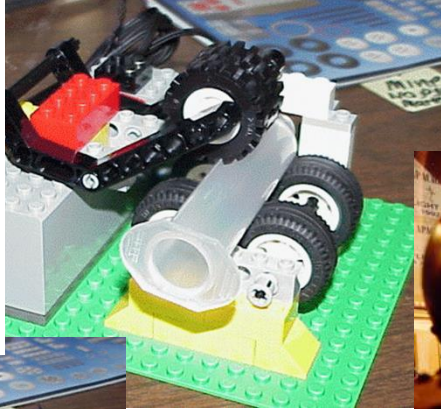
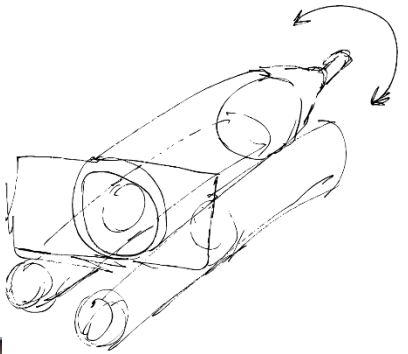
LifePort, Inc

InFocus Corporation

### **Motile Corporation**

Planar Systems

CleanPak International



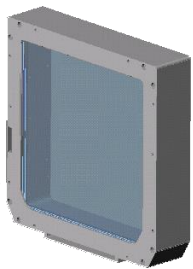
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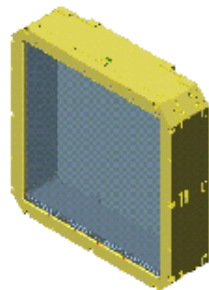
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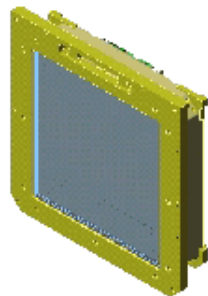
**F18 E/F**



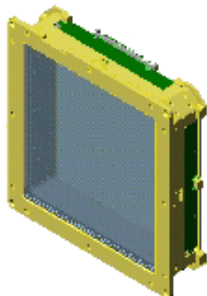
**EUROFIGHTER**



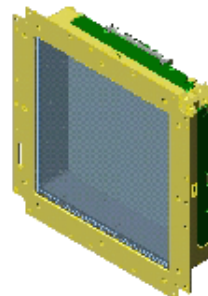
**APACHE**



**V22**

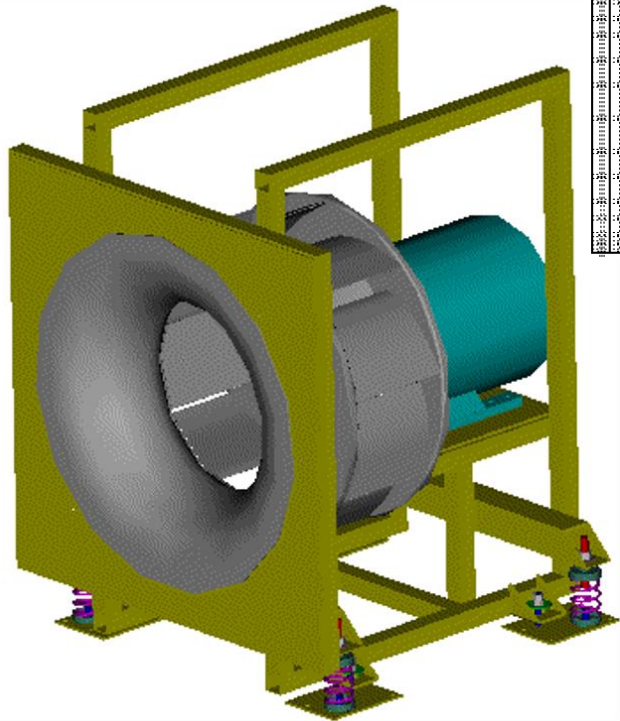
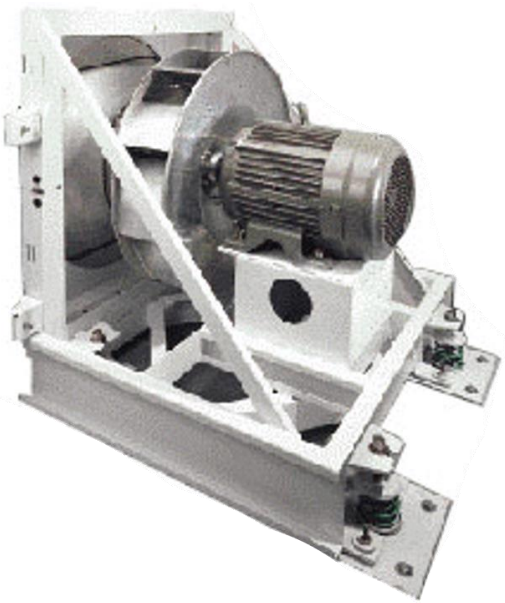


**F22**









TUBE SIZE	
INLET CONE	WHEEL CODE
12	12
13	13
14	14
15	15
16	16

FAN SIZE - BUSHING - MOTOR RELATIONSHIP		
FAN SIZE	BUSHING	MOTOR
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16

WHEEL INFO	
WHEEL CODE	WHEEL TYPE
12	12
13	13
14	14
15	15
16	16

HUB INFORMATION	
INLET CONE	WHEEL CODE
12	12
13	13
14	14
15	15
16	16

BUSHING	
INLET CONE	WHEEL CODE
12	12
13	13
14	14
15	15
16	16

INLET CONE	
INLET CONE	WHEEL CODE
12	12
13	13
14	14
15	15
16	16

WHEEL CODE	
WHEEL CODE	WHEEL TYPE
12	12
13	13
14	14
15	15
16	16

MOTOR PLATE	
MOTOR FRAME SIZE	MOTOR PLATE
12	12
13	13
14	14
15	15
16	16

MOTOR PLATES	
MOTOR FRAME SIZE	MOTOR PLATE
12	12
13	13
14	14
15	15
16	16

MOTOR FRAME SIZE	FAN SIZE	DIST BET EDGE & SLOT (WIDTH)	SLOT WIDTH	DIST BET SLOTS (WIDTH)	DIST FROM EDGE TO CENTER OF FRONT SLOT	WIDTH	LENGTH
143	12						
143	13						
143	15						
143	16						
145	12						
145	13						
145	15						
145	16						
182	12						
182	13						
182	15						
182	16						
182	18						
182	20						
182	22						
182	24						
184	12						
184	13						
184	15						
184	16						

### FAN FRAME

FAN SIZE	MOTOR FRAME SIZE	BASE HORIZONTAL WHEEL TYPE		BACK VERTICAL	SPRING CLIP VERTICAL	SPRING CLIP ATTACHMENT	PEDESTAL				
		91	92				PEDESTAL FRONT	PEDESTAL SIDE HORIZONTAL	PEDESTAL BACK	PEDESTAL SIDE VERTICAL	
12	143	12-143	18.74	18.44	28.08	5.5	18.38000	3.50000	8.125	11.5	3.50
12	145	12-145	19.74	19.44	28.08	5.5	18.38000	3.50000	3.125	11.5	3.50
12	182	12-182	20.77	20.47	26.54		21.38000	12.50000	8.875	14.5	
12	184	12-184	21.77	21.47	26.54	5.5	18.38000	3.50000	3.875	14.5	8.50
12	213	12-213	24.40	24.10	24.43	5.5	24.38000	15.50000	11.125	17.5	7.75
12	215	12-215	25.30	25.60	24.43	5.5	24.38000	15.50000	12.625	17.5	7.75
13	143	13-143	19.50	19.11	23.45	5.5	18.38000	3.50000	8.125	11.5	10.23
13	145	13-145	20.50	20.11	23.45	5.5	18.38000	3.50000	3.125	11.5	12.85
13	182	13-182	21.53	21.14	27.39	5.5	21.38000	12.50000	8.875	14.5	11.85
13	184	13-184	22.53	22.14	27.39	5.5	21.38000	12.50000	3.875	14.5	11.16
13	213	13-213	25.16	24.77	26.07	5.5	24.38000	15.50000	11.125	17.5	10.41
13	215	13-215	26.66	26.27	26.07	5.5	24.38000	15.50000	12.625	17.5	3.52
15	143	15-143	20.43	20.10	31.20	5.5	18.38000	3.50000	8.125	11.5	11.27
15	145	15-145	21.43	21.10	31.20	5.5	18.38000	3.50000	3.125	11.5	11.27
15	182	15-182	22.52	22.13	29.83	5.5	21.38000	12.50000	8.875	14.5	10.27
15	184	15-184	23.52	23.13	29.83	5.5	21.38000	12.50000	3.875	14.5	10.27
15	213	15-213	26.15	25.76	28.05	5.5	24.38000	15.50000	11.125	17.5	3.52
15	215	15-215	27.65	27.26	28.05	5.5	24.38000	15.50000	12.625	17.5	3.52
16	143	16-143	21.74	21.11	32.80	5.5	18.38000	3.50000	8.125	11.5	12.17

## Industries:

- Consumer Electronics
- Industrial/Construction**
- Military/Aerospace
- Transportation
- Medical
- R&D**
- Education

## Companies:

- Innovative Converged Devices (ICD)
- ATW (Around the World Technologies)
- Washington State University Vancouver
- Spacelabs Healthcare
- Intel
- Novellus
- Clark Community College
- CAE Northwest/Hawk Ridge Systems
- MTI Micro
- Talla Tech
- LifePort, Inc
- InFocus Corporation
- Motile Corporation
- Planar Systems
- CleanPak International**



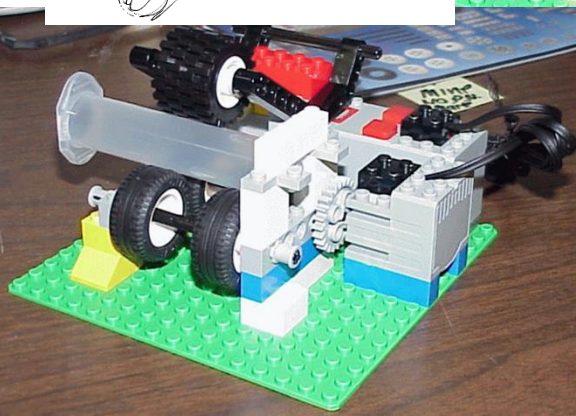
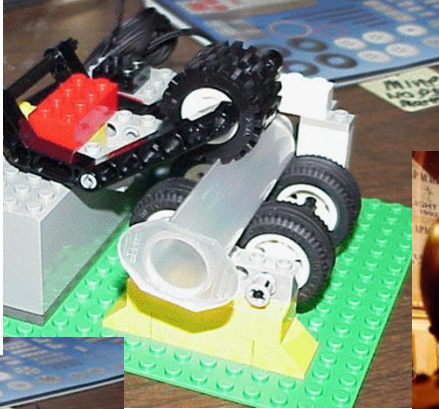
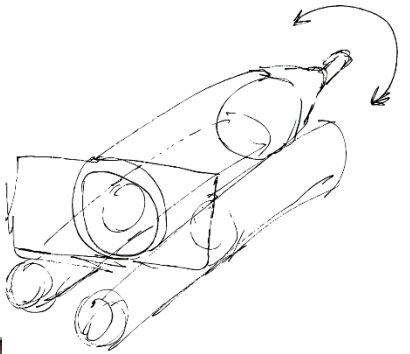
So which projects am I most proud of. . .

**Industries:**

Consumer Electronics  
Industrial/Construction  
Military/Aerospace  
Transportation  
Medical  
R&D  
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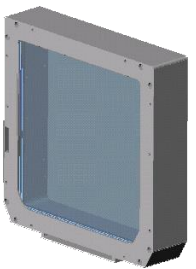
## Industries:

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**Military/Aerospace**  
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Education

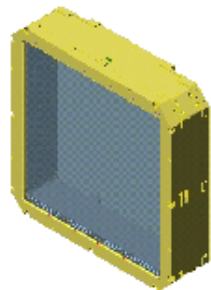
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LifePort, Inc  
InFocus Corporation  
Motive Corporation  
**Planar Systems**  
CleanPak International

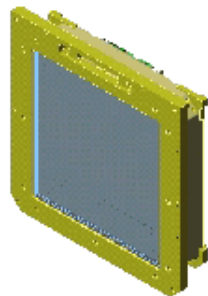
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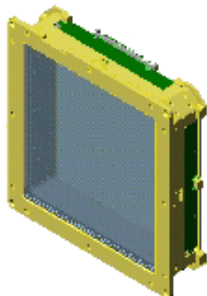
**EUROFIGHTER**



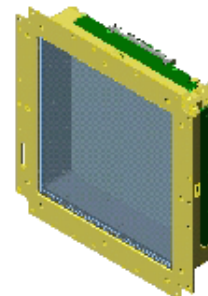
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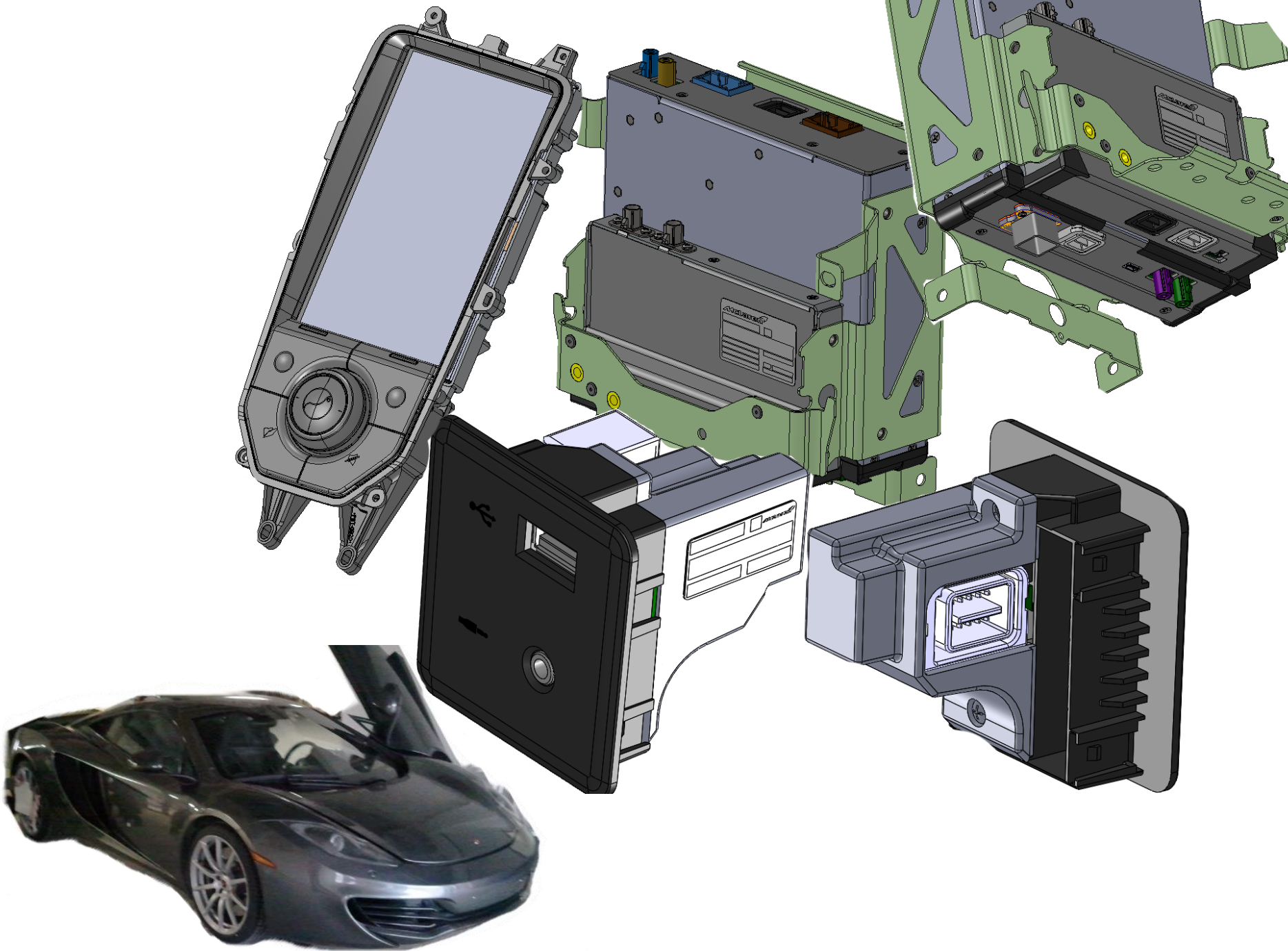


**V22**



**F22**





## **Industries:**

Consumer Electronics  
Industrial/Construction  
Military/Aerospace

## **Transportation**

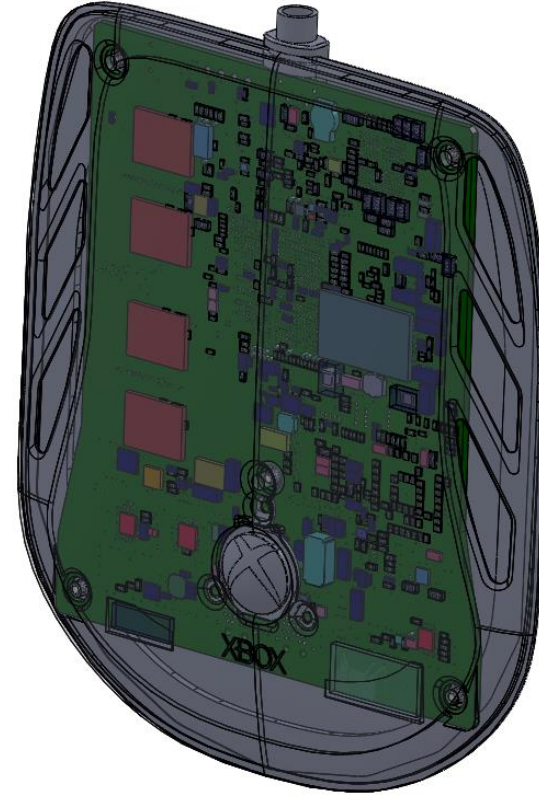
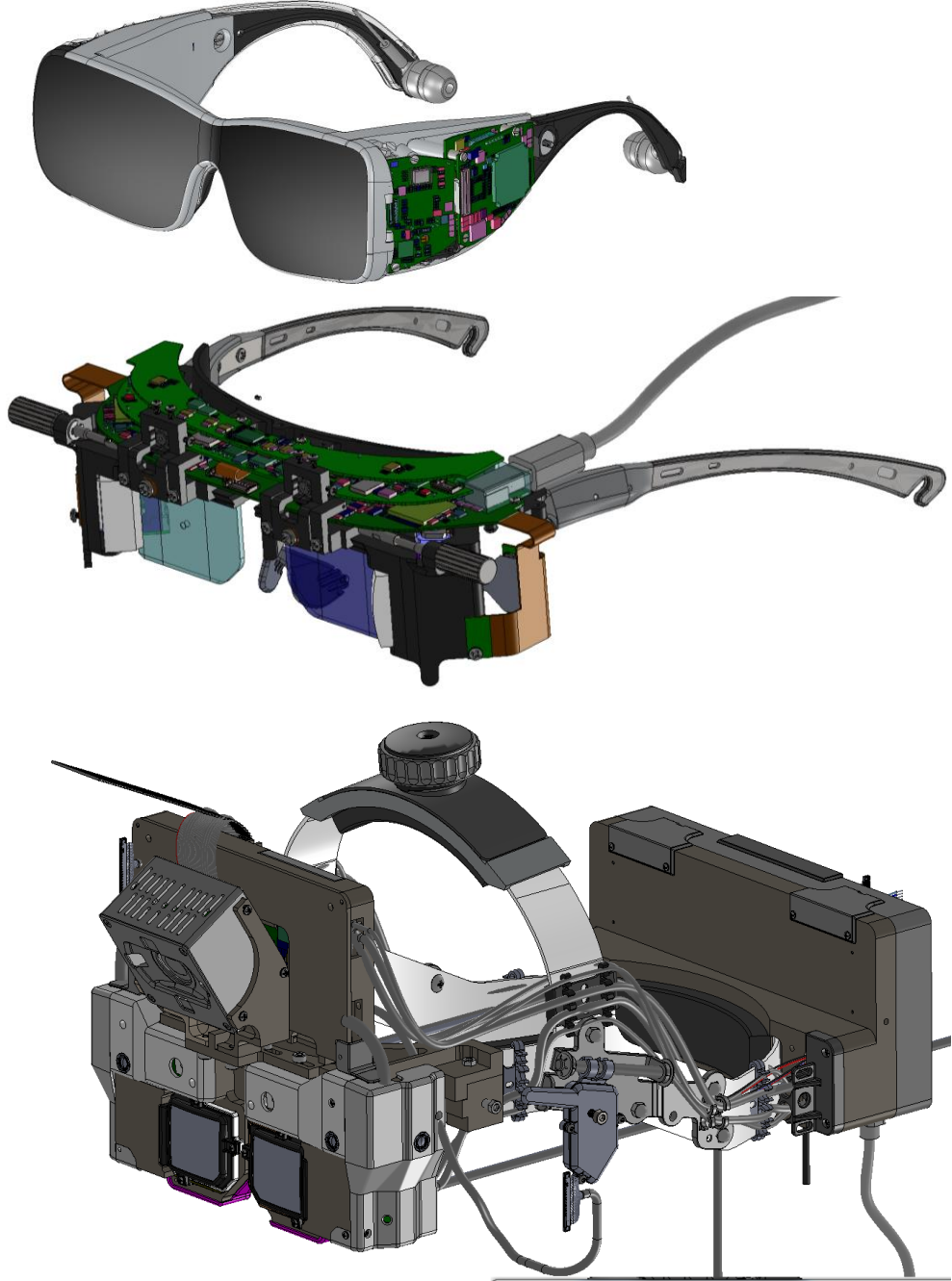
Medical  
R&D  
Education

## **Companies:**

### ***Innovative Converged Devices (ICD)***

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## Industries:

### **Consumer Electronics**

Industrial/Construction

Military/Aerospace

Transportation

Medical

### **R&D**

Education

## Companies:

### **Innovative Converged Devices (ICD)**

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Thanks for your time.

**Industries:**

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Transportation  
Medical  
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**Companies:**

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