

Accreditations:



Abstract of Participation in Projects:

Page

Description

- A-1.....Content index and resume.
- A-2.....API 650/AWWA D100-11 Tank detailed design, calculation, drafting, quantity estimation and reports.
- A-3.....API650 Stainless Steel Tank detailed design, drafting, quantity estimation and reports, CNC parts manufacturing, Finite Element Analysis on roof.
- A-4.....Sulfuric Acid Storage Tank engineering, drafting, quantity estimation and reports, CNC parts manufacturing.
- A-5.....Ducts calculation and drafting for CNC manufacturing, quantity estimation.
- A-5.....Gate bracket, drafting, CNC manufacturing.
- A-5.....Pipe Tester Frame Finite Elements Analysis (Displacement).
- A-6.....Fiscal Module for impact printer with GPRS device adaptive frame.
- A-6.....Dot Matrix printer fiscal module design.
- *.....Baker Hughes sand dehydrator tank and frame assembly design, drafting, quantity estimation.
- *.....UWI South Campus Building Management System installation for packages 1, 2 and 3.
- *.....Architectural panels design and manufacturing using CNC plasma cut technology.
- *.....Planning, design and drafting in other projects relate to industrial and commercial product development, maintenance, CNC programming and manufacturing for plastic injection molded parts, sheet metal and plasma CNC cutting, bending and rolling.

Educational Background:

- *Mechanical Engineer, B.Sc. Degree
- *Electronic Engineering Technician, Professional Degree

Certificates/Training:

- *PTC Creo® Mechanical CAD/CAM and Finite Element Analysis, CFD, Mechanism Simulation, Injection Molding Analysis, Sheet Metal Design
- *AutoCAD® 2D/3D Certified Professional
- *Project Management (PMI)®
- *General Safety, Point Lisas Energy Association, PLEA ID# 5073

Language Skills:

- *English: Fluent
- *Castellano: Fluent

Professional Skills:

- *Mechanical Design
- *G-Code CNC Programming
- *Engineering Calculations and Reporting
- *API 650, AWWA D100-11, ASME Section VIII DIV.1/DIV.2 Tank Design, Calculation, Drafting, Quantity Estimation and Engineering Reports
- *Fabricated Ducts Design and its CNC Manufacturing as per ASHRAE Standards, in any plate thickness
- *CNC Plastic Injection Molded Parts Design
- *Sheet Metal Rolled/Bended Parts Design and CNC Manufacturing
- *Project Planning/Scheduling (Oracle Primavera P6®, Microsoft PROJECT®, EXCEL®, VISIO®, POWERPOINT® Proficient)
- *Geometric Dimensioning and Tolerancing
- *Mathematical Software Proficient (Maplesoft®)

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B I U Merge & Center \$ % Number Styles

M17	A	B	C	D	E	F	G	H	I	J	K
1	QTY	SHPG MARK	ASSY QTY	ASSY MARK	DESCRIPTION	LENGTH	SPEC MAT	REMARKS	WEIGHT	REF. DRAWING	
2	6	TM01			ANGLE 2" x 2" x 1/3" x	18'-0"	A36	ROLL	[228]	E01	
3	1	BR01			BOTTOM PL. 0.3125" x 96" x	20'-0"	A36	RECT	[2040]	BL02	
4	2	BS01			BOTTOM PL. 0.3125" x 31 1/3" x	5'-3 1/3"	A36		[206]	BL02	
5	2	BS02			BOTTOM PL. 0.3125" x 96" x	10'-6 1/3"	A36		[1733]	BL02	
6	2	BS03			BOTTOM PL. 0.3125" x 96" x	11'-0 2/3"	A36		[2220]	BL02	
7	2	BS04			BOTTOM PL. 0.3125" x 96" x	10'-6 1/3"	A36		[1733]	BL02	
8	2	BS05			BOTTOM PL. 0.3125" x 31 1/3" x	5'-3 1/3"	A36		[206]	BL02	
9	2	BS06			BOTTOM PL. 0.3125" x 60 2/3" x	8'-0"	A36		[996]	BL02	
10	1	RR01			ROOF PL. 0.3125" x 96" x	20'-0"	A36	RECT	[2034]	RL02	
11	1	RR02			ROOF PL. 0.3125" x 96" x	20'-0"	A36	RECT	[2034]	RL02	
12	2	RS01			ROOF PL. 0.3125" x 86" x	12'-10 1/3"	A36		[1668]	RL02	
13	2	RS02			ROOF PL. 0.3125" x 86" x	12'-10 1/3"	A36		[1668]	RL02	
14	1	RS03			ROOF PL. 0.3125" x 61 2/3" x	7'-11 1/3"	A36		[446]	RL02	
15	1	RS04			ROOF PL. 0.3125" x 61 2/3" x	7'-11 1/3"	A36		[446]	RL02	
16	1	RS05			ROOF PL. 0.3125" x 61 2/3" x	7'-11 1/3"	A36		[446]	RL02	
17	1	RS06			ROOF PL. 0.3125" x 61 2/3" x	7'-11 1/3"	A36		[446]	RL02	
18	6	TM01			ANGLE 2" x 2" x 1/3" x	18'-0"	A36	ROLL	[228]	TM01	
19	14	FR			ANGLE 1 2/3" x 1 2/3" x 1/3" x	6'-5 2/3"	A36		[196]	ST02	
20	8	LB			FB 1/3" x 2" x	7'-5"	A36	FLD TRIM	[104]	ST02	
21	14	RC			PL 1/3" x 5" x	6"	A36	W/SLOTS	[39]	ST03	
22	14	RF01			W10X12 x	14'-1"	A36	W/HOLES	[781]	ST03	
23	28	BLT01			M. BOLTS 2/3" DIA x 1 1/3" W/ WASHER AND HVY HN		A325		[13]	ST03	
24	1	BP01A			BASE PL 1/3" x 19" x	1'-7"	A36		[38]	ST04	
25	1	BP01B			BEARING PL. 2/3" x 16" x	1'-4"	A36		[45]	ST04	
26	2	BP01C			ANGLE 3" x 3" x 1/3" x	8"	A36		[12]	ST04	
27	1	CL01A			COLUMN ASSY				[1073]	ST04	
28			1	CL01Aa	PIPE 10" DIA SCH STD x	23'-4 1/3"	A106-B		946	ST04	
29			1	CL01Ab	CAP PL 2/3" x 29" OD		A36	W/HOLES	91	ST04	

GENERAL_BOM

5.9.7 Intermediate Wind Girders

5.9.7.1 The maximum height of the unstiffened shell shall be calculated as follows:
In US Customary units:

$$H_1 = 600,000t \sqrt{\left(\frac{t}{D}\right)^3 \left(\frac{120}{V}\right)^2}$$

where

\hat{h} = vertical distance, in ft, between the intermediate wind girder and the top angle of the shell or the top wind girder of an open-top tank;

t = nominal thickness, unless otherwise specified, of the thinnest shell course (in.) (see Note 1);

D = nominal tank diameter (ft);

V = design wind speed (3-sec gust) (mph) (see 5.2.1[K]).

$t := 0.25 \text{ in}$
 $D := 30 \text{ ft}$
 $V := 110 \text{ mph}$

$$H_1 = 600000 \cdot t \cdot \sqrt{\left(\frac{t}{D}\right)^3 \cdot \left(\frac{120}{V}\right)^2}$$

$$H_1 = 135.799 \text{ ft}$$

PROJECT:

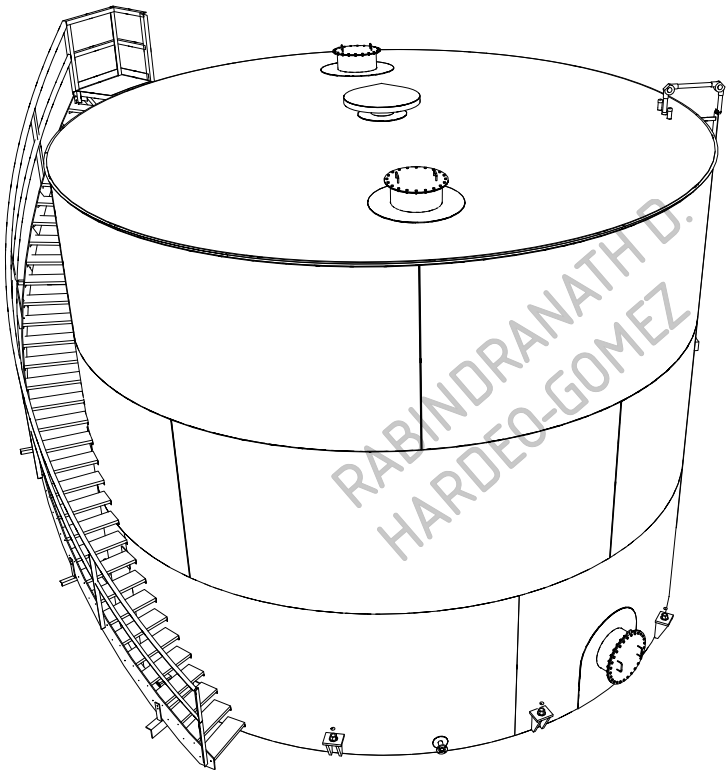
*FIREWATER TANK - TRINIDAD & TOBAGO NATIONAL PETROLEUM MARKETING COMPANY LTD., SEA LOTS, TRINIDAD, W.I.

DESCRIPTION:

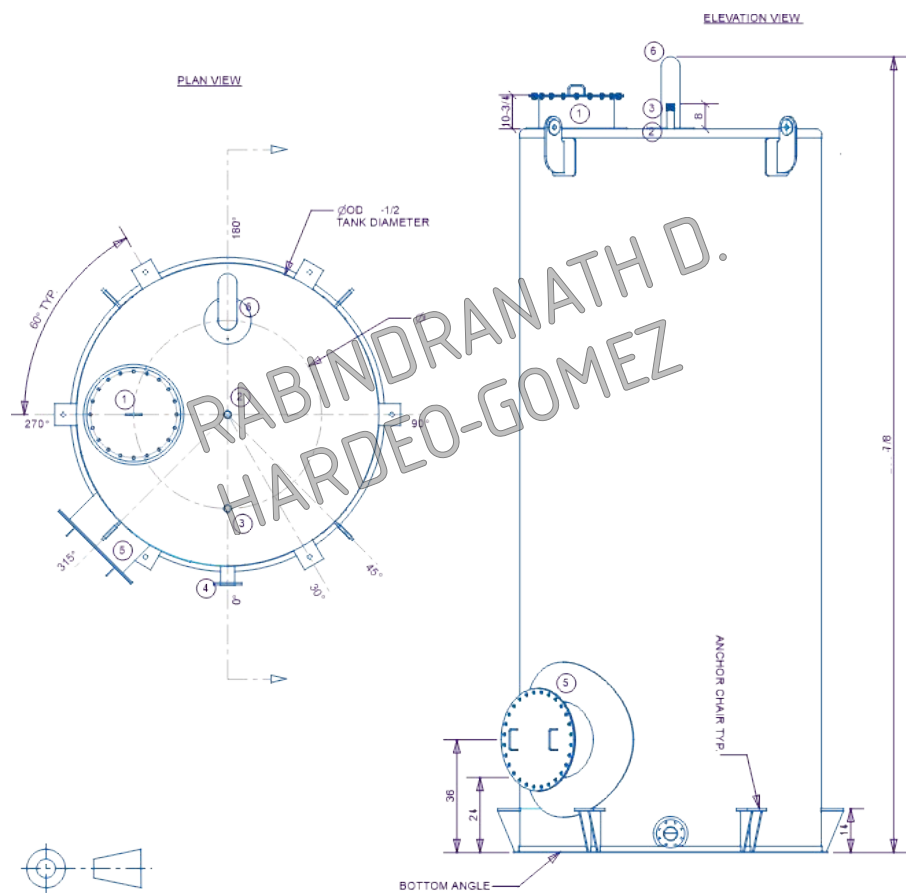
*TANK DETAILED DESIGN, CALCULATION UNDER STANDARDS API 650 AND AWWA D100-11 SPECIFIED ON CONTRACT, FABRICATION DRAWINGS, MATERIAL QUANTITY ESTIMATION, PLANS AND ENGINEERING REPORTS RELEASED TO CONTRACTOR

TOOLS & TECHNIQUES:

- *CUSTOMIZED SOFTWARE SYSTEM FOR TANK DESIGN SUPPORT
- *3D CAD/CAE/CAM SOFTWARE
- *CALCULATION SPREADSHEETS DEVELOPED DURING THE COURSE OF PREVIOUS PROJECTS
- *STANDARDS ABOVEMENTIONED



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PROJECT:
*STAINLESS STEEL OIL STORAGE TANK - VEMCO, EL SOCORRO, TRINIDAD, W.I.

DESCRIPTION:
*TANK DETAILED DESIGN, CALCULATION UNDER STANDARD API 650 SPECIFIED ON CONTRACT, FABRICATION DRAWINGS, MATERIAL QUANTITY ESTIMATION, PLANS AND REPORTS RELEASED TO CONTRACTOR

TOOLS & TECHNIQUES:
*CUSTOMIZED SYSTEM FOR TANK DESIGN SUPPORT
*3D CAD/CAE/CAM SOFTWARE
*CALCULATION SPREADSHEETS DEVELOPED DURING THE COURSE OF PREVIOUS PROJECTS
*STANDARD ABOVEMENTIONED

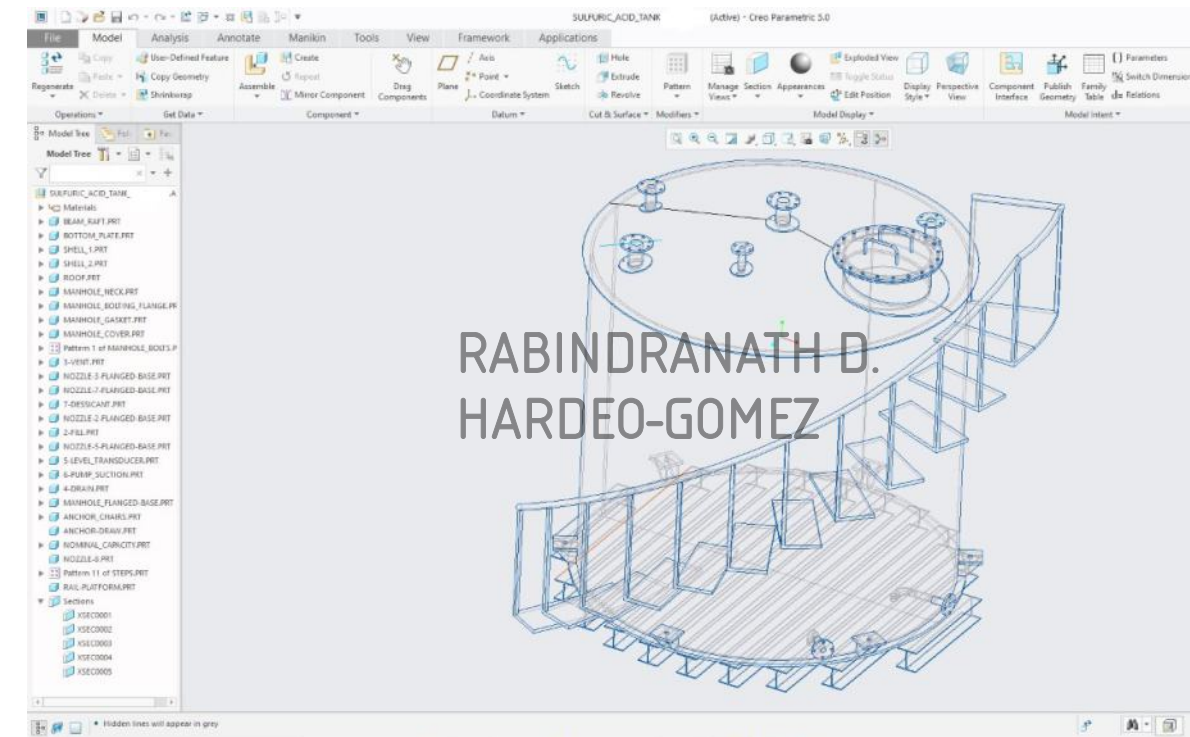
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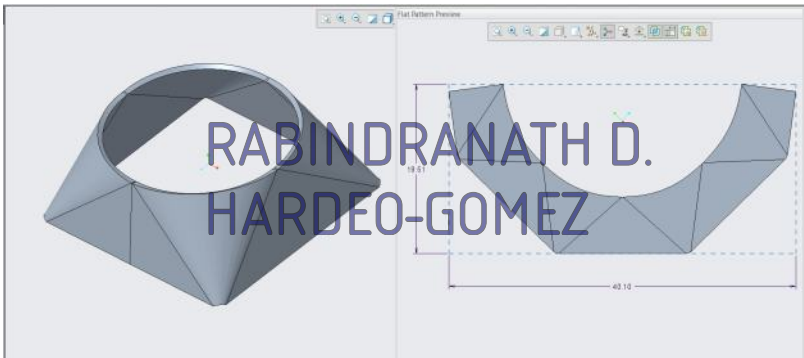
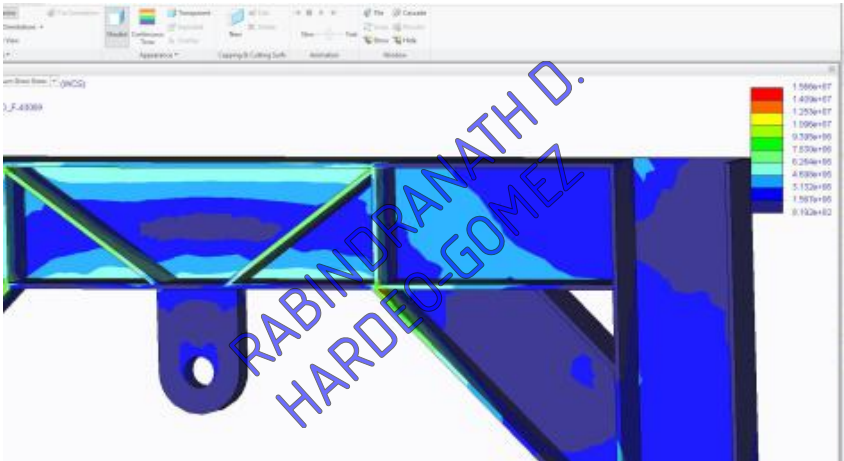
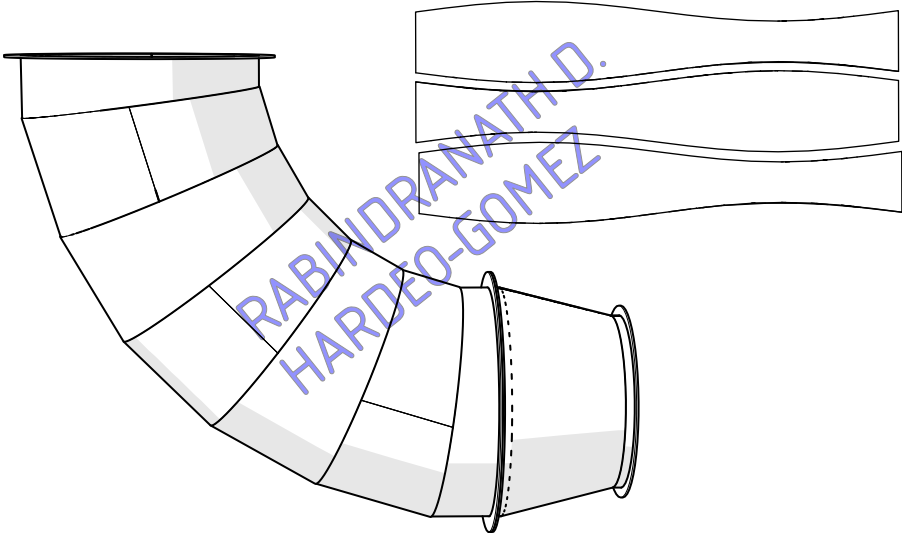
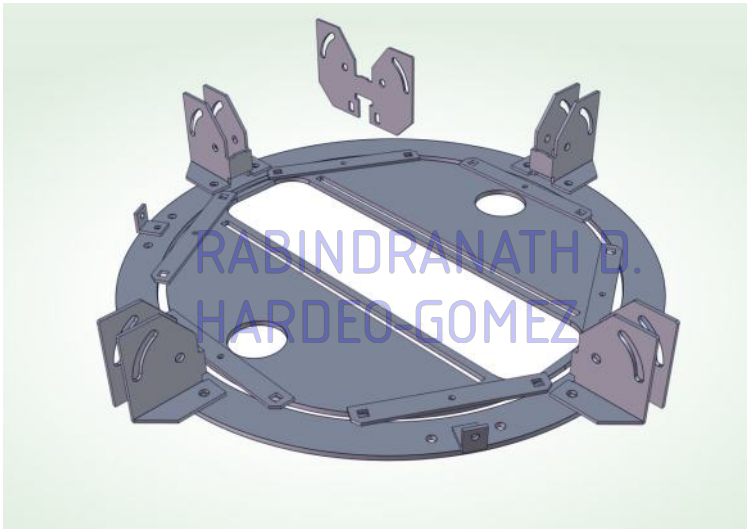
PROJECT:
*SULFURIC ACID STORAGE TANK - SEVEN SEAS WATER, POINT FORTIN, TRINIDAD, W.I.

DESCRIPTION:
*TANK DETAILED DESIGN, CALCULATION UNDER STANDARDS API 650 AND NACE SP0294-2006 SPECIFIED ON CONTRACT, FABRICATION DRAWINGS, MATERIAL QUANTITY ESTIMATION, PLANS AND REPORTS RELEASED TO CONTRACTOR

TOOLS & TECHNIQUES:
*CUSTOMIZED SYSTEM FOR TANK DESIGN SUPPORT
*3D CAD/CAE/CAM SOFTWARE
*CALCULATION SPREADSHEETS DEVELOPED DURING THE COURSE OF PREVIOUS PROJECTS
*STANDARDS ABOVEMENTIONED



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PROJECTS:

- *FABRICATED DUCTS, GORED ELBOWS, REDUCERS, LATERALS IN 1/8" TO 3/8" THICK MILD STEEL PLATE - NU IRON UNLIMITED, COUVA, TRINIDAD, W.I.
- *GATE BRACKET - RBR LTD, TRINIDAD, W.I.
- *PIPE TESTER FRAME - KHANICO LTD., GASPARILLO, TRINIDAD, W.I.
- *ROUND TO SQUARE DUCT TRANSITIONS - CARIB GLASS, CHAMP FLEURS

DESCRIPTION:

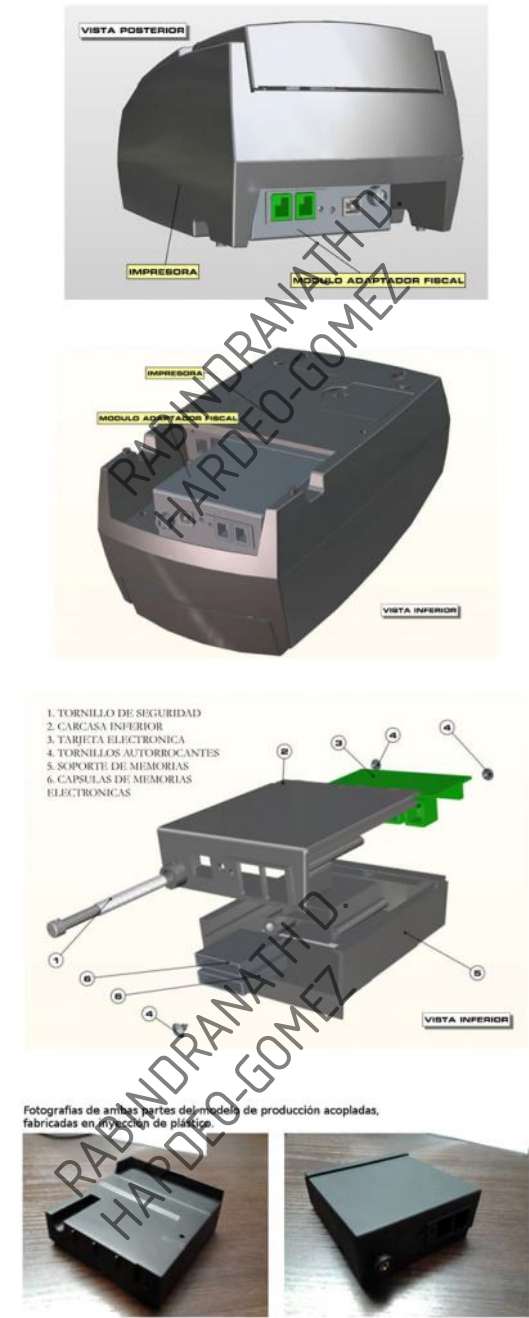
- *DUCTS DRAFTED ON DEVELOPED FLAT SHAPES, NESTED FOR CNC PLASMA CUTTING AND ROLLING EFFICIENTLY USING MATERIAL PROVIDED, DUCT DESIGN FOLLOWING ASHRAE STANDARDS
- *BRACKET ASSEMBLY DRAFTED FROM CUSTOMER SAMPLE, PROGRAMMING CNC FILES PER PART FOR PLASMA CUT AND BEND
- *FRAME DESIGNED USING FINITE ELEMENTS ANALYSIS FOR A LOAD SPECIFIED BY CUSTOMER

TOOLS & TECHNIQUES:

- *PTC CREO® SOFTWARE
- *CALCULATION SPREADSHEETS DEVELOPED DURING THE COURSE OF PREVIOUS PROJECTS
- *FINITE ELEMENTS ANALYSIS
- *MECHANISM SIMULATION
- *SHEET METAL ROLLING/BENDING SIMULATION
- *ASHRAE STANDARD AND BEST PRACTICES GUIDE

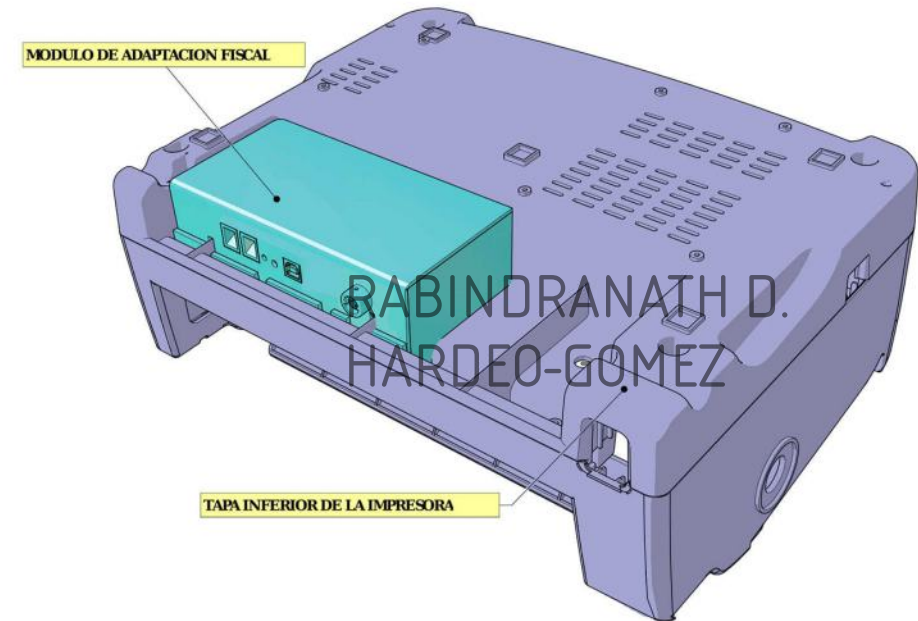
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SOLUCION FISCAL PARA IMPRESORA POS



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SOLUCION FISCAL PARA IMPRESORA DE MATRIZ DE PUNTO



PARTES DEL MODULO DE ADAPTACION FISCAL



<http://proyectahardeo.github.io/>

PROJECTS:

- *FISCAL MODULE FOR TERMAL POS PRINTER BIXOLON SRP 275 - THE FACTORY HKA C.A., CARACAS
- *FISCAL MODULE FOR IMPACT PRINTER TALLY 1125 - DASCOM AMERICAS, CARACAS

DESCRIPTION:

*MODULES DESIGNED ACCORDING TO FISCAL REQUIREMENTS FROM SEVERAL COUNTRIES IN ORDER TO USE THE SAME INJECTION MOLDS TO FABRICATE THE ASSEMBLIES FOR EACH MARKET, COMMUNICATION WITH ELECTRONIC ENGINEERS OF THE TEAM PROVIDED FINAL SIZES FOR INTERNAL SHAPES, PCBs AND ITS COMPONENTS

TOOLS & TECHNIQUES:

- *PTC CREO® SOFTWARE
- *ENGINEERING POLYMERS (THERMOPLASTICS)
- *MECHANISM SIMULATION, INJECTION MOLDING ANALYSIS
- *PROJECT MANAGEMENT TECHNIQUES



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