

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 Drafting
- *Project Management (PMI)®
- *Engineering Software Development using RAD Studio®
- *General Safety, Point Lisas Energy Association, PLEA ID# 5073

Language Skills:

- *English: Fluent
- *Castilian: 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 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®, POWER POINT® Proficient)
- *Geometric Dimensioning and Tolerancing
- *Mathematical Software Proficient

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			DATE:	JUNE/2021	

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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:

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

where

H_1 = 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]).

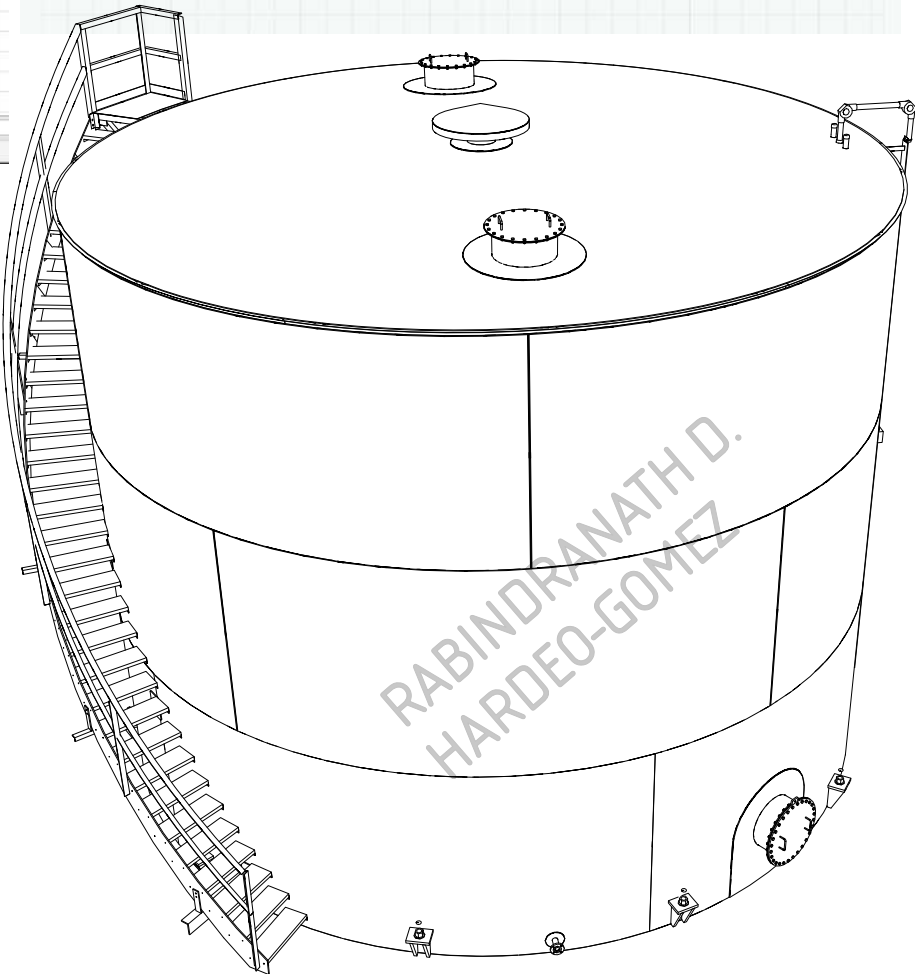
$$t := 0.25 \text{ in}$$

$$D := 30 \text{ ft}$$

$$V := 110 \text{ mph}$$

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

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



PROJECT:

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

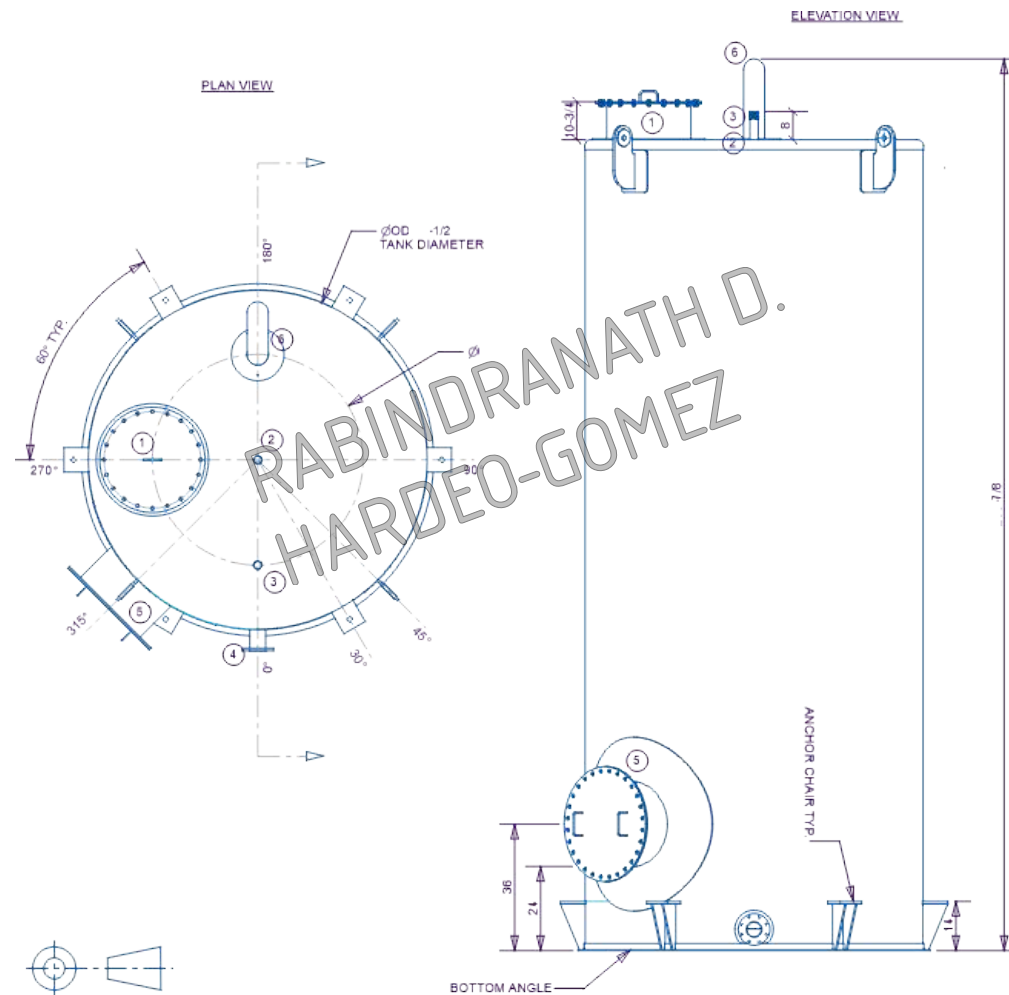
DESCRIPTION:

*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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			DATE:	JUNE/2021	



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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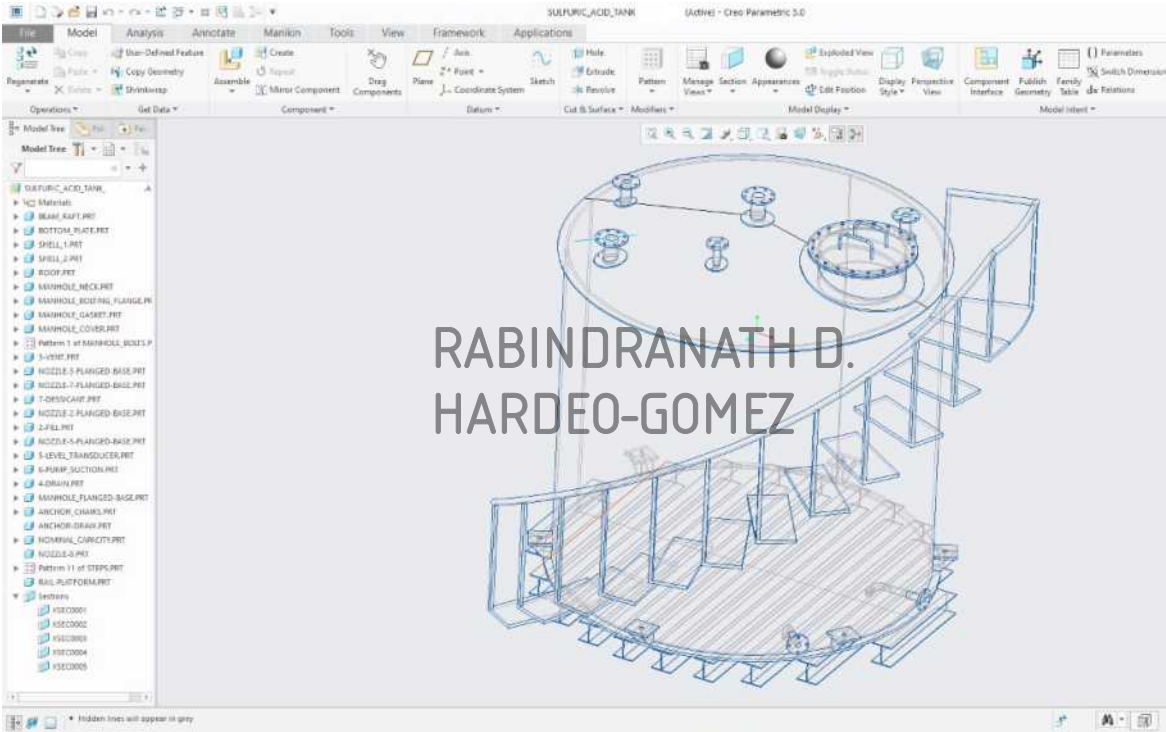


RABINDRANATH D.
HARDEO-GOMEZ

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

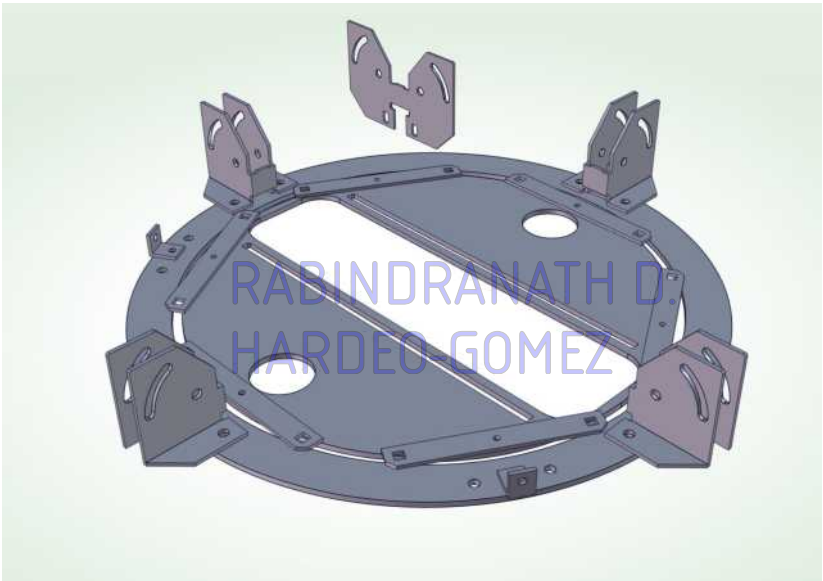
DESCRIPTION:
*TANK DETAILED DESIGN, CALCULATION UNDER STANDARDS
API 650 AND NACE SP0294-2006 SPECIFIED ON CONTRACT,
FABRICATION DRAWINGS, MATERIAL QUANTITY ESTIMATION,
PLANS AND REPORTS RELEASED TO CONTRACTOR

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



RABINDRANATH D.
HARDEO-GOMEZ

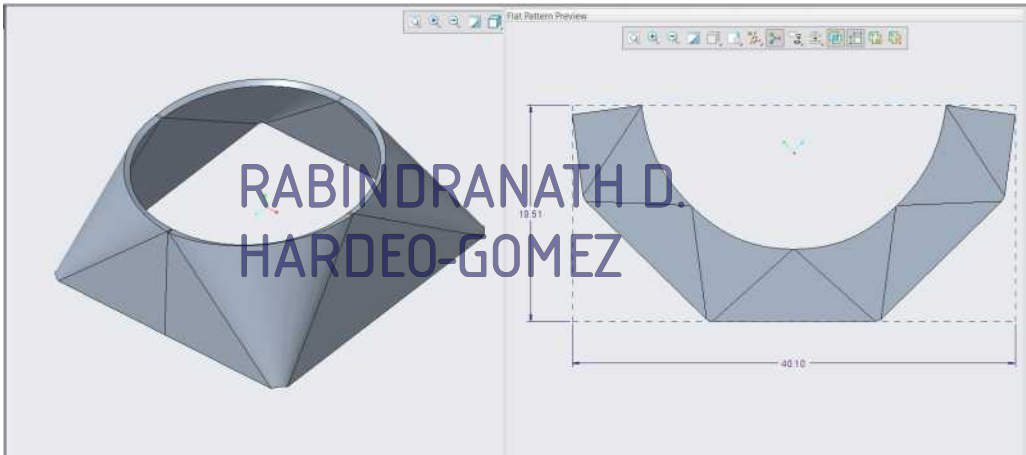
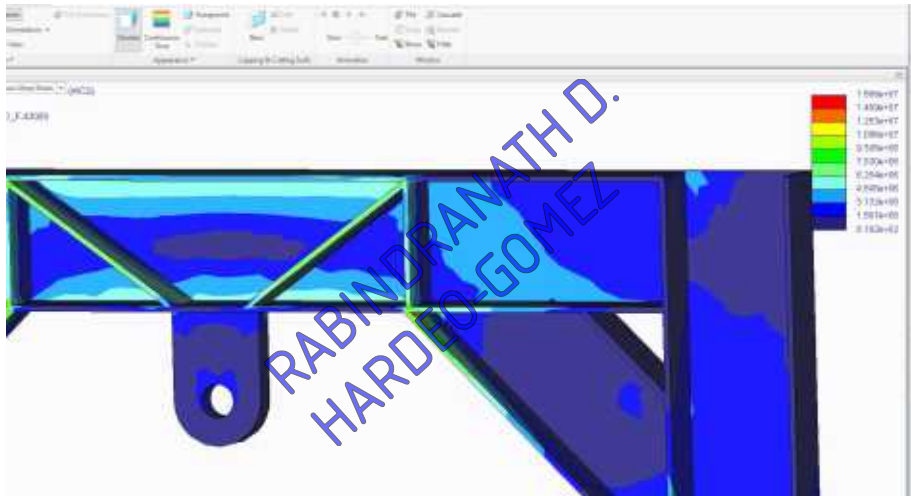
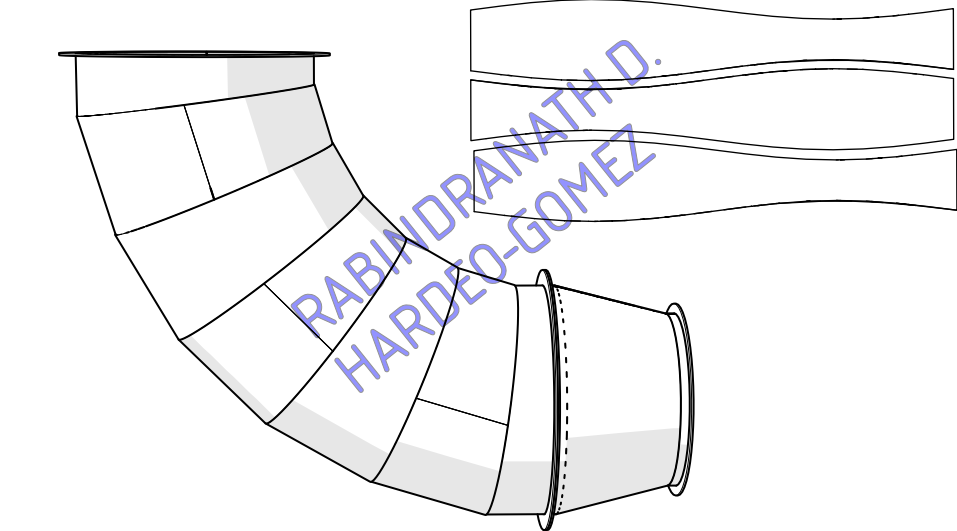
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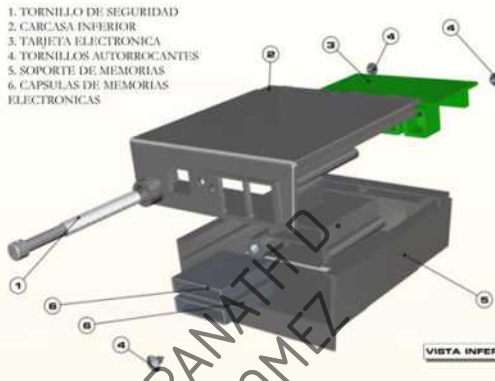
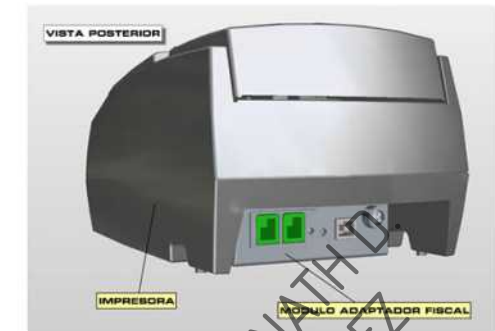
- PROJECTS:**
- *FABRICATED DUCTS, GORED ELBOWS, REDUCERS, LATERALS IN 1/8" TO 3/8" THICK MILD STEEL PLATE - NU IRON UNLIMITED, COUVA, TRINIDAD, W.I.
 - *GATE BRACKET - RBR LTD, TRINIDAD, W.I.
 - *PIPE TESTER FRAME - KHANICO LTD., GASPARILLO, TRINIDAD, W.I.
 - *ROUND TO SQUARE DUCT TRANSITIONS - CARIB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

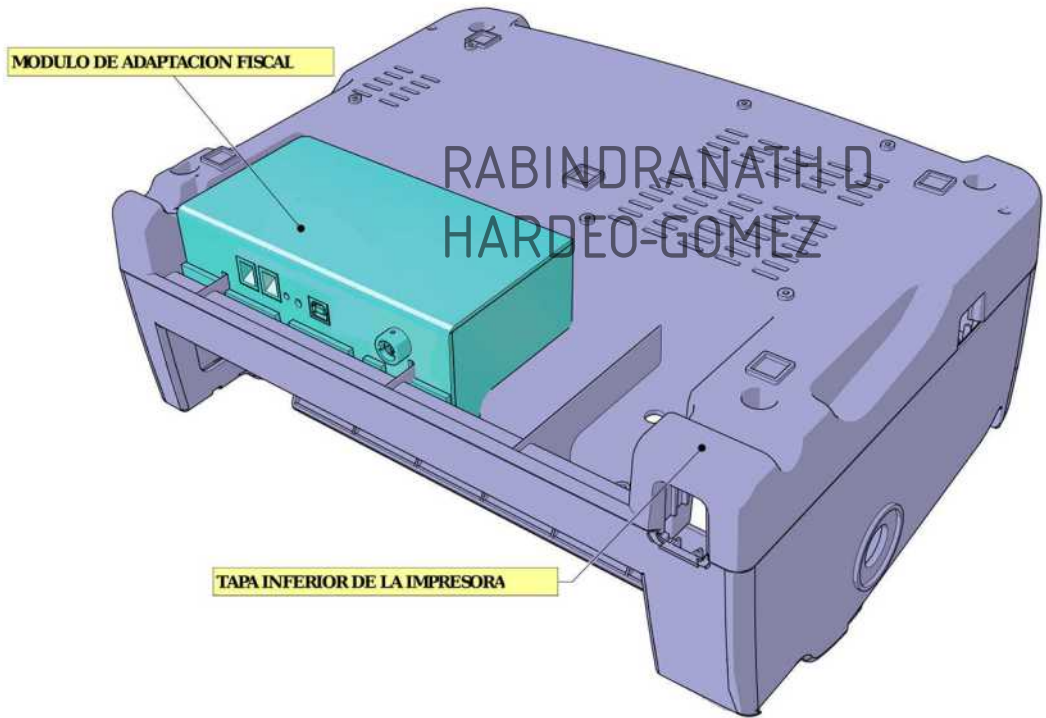


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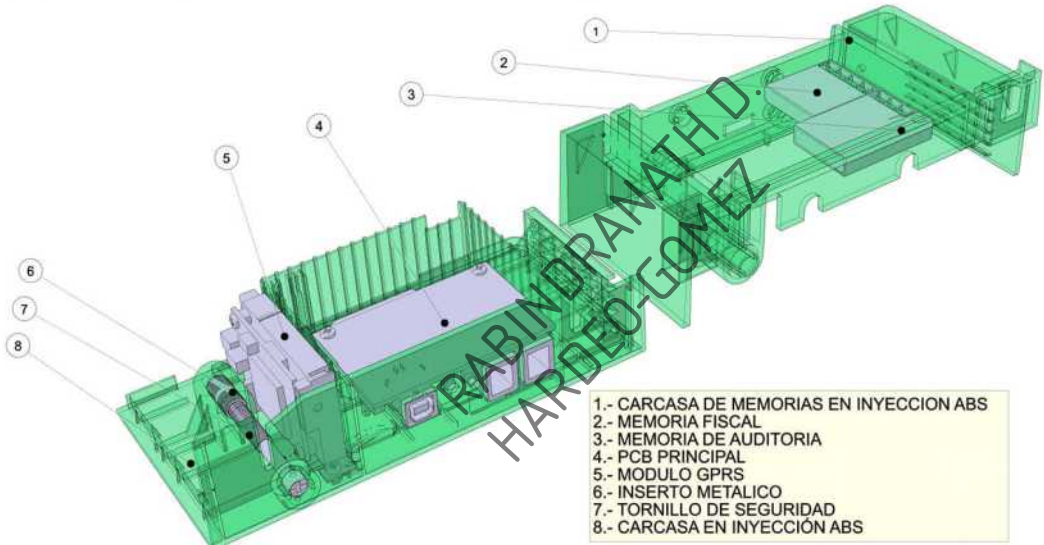


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SOLUCION FISCAL PARA IMPRESORA DE MATRIZ DE PUNTO



PARTES DEL MODULO DE ADAPTACION FISCAL



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

PROJECTS:
*FISCAL MODULE FOR THERMAL 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
*AGILE METHODOLOGIES: KANBAN, SCRUM



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