



COMPUTER SOLUTIONS, INC.

Extreme Makeover:

OIPI Edition

Frank Tomeo

Senior Developer, 5 years

- SRP Computer Solutions, Inc.

Deputy Sheriff, 11 years

- Orange County Sheriff's Dept.

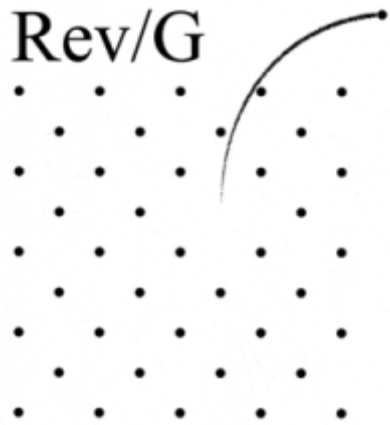
SRP Computer Solutions, Inc.

Over 50 active clients

Principle area is the Southern California market

About 10 clients outside this region being supported remotely

Strong business relationships with other Revelation
developers & solution providers



Revelation Solution Partner Program

Member of the program since its rollout

Classified as System Integrator

Product reseller



Authorized Training Center for Revelation Software

Premier training center under the new ATC program and guidelines

Recognized worldwide as one of the leaders in OpenInsight development

Active beta-testers of OpenInsight and contributors to its direction



SoCal Revelation User's Group

Founding member & corporate sponsor

Meet approximately once a quarter

Publish white papers on current and relevant topics



Who should be here?

- Advanced OIPI developers
- New developers looking at OIPI potential
- OI end-users looking for new ideas

Look Ma, No PowerPoint!

- Presentation written entirely with the OIPI
- Makes this a presentation and demonstration
- Proof of concept - OIPI is a powerful tool
- CD duplicate generated by PDF output
- Full version included on SRP Flashdrive giveaway

Onions, Ogres, and the OIPI

- Think and code in layers
- Remember your "z" position

Where U At?

- Take control of your x,y positioning
- Know where you are after each Set_Printer
- Allows for greater page control
- Again, don't forget layered objects (z)

Choose, but choose wisely...

- Font faces, styles, sizes
- Gray shading
- Lines, boxes
- Logos, pictures, images
- Colors

Multiplicity

- Write it once, use it many
- Like window events, learn to modularize
- Code frequently used drawing objects as functions

Put Text In Its Place

- Text vs. TextXY vs. TextBox vs. AddTable
- Maximum control
- Maximum flexibility

EXAMPLE

- Text - no X control
- TextXY & TextBox - no justification control
- TextXY - possible printer (inkjet) issues
- Font face/size - additional code
- Winner - AddTable

```
Command Line
S14 S8 S12 S13 S15 S16 CODE_SAMPLE BACKGROUND START_PRESENTATION

Text = "Viva Las Vegas"
rv = Set_Printer("FONT", Adventure_56$)
rv = Set_Printer("ADDTABLE", "^":(11*1440), "", Text)
rv = Set_Printer("FONT", Night_Sky_56$)
rv = Set_Printer("ADDTABLE", "^":(11*1440), "", Text)
```

Viva Las Vegas!
Viva Las Vegas!

ELECTRONIC PRECISION SPECIALTIES, INC.

- Metal plating company in Brea, CA
- Project - New job card for part tracking
- Requirements:
 - 1) Custom form to be laser printed
 - 2) Must contain various job and part information
 - 3) Comprehensive pre-printed notes and specs
 - 4) Areas for floor staff to write data in as necessary
 - 5) Ability to visually prompt users to special circumstances
 - 6) Future ability - barcode tracking
 - 7) Nice to have - part picture

JOB CARD VISION

CUSTOMER _____ P.O.# _____ DATE RECEIVED: _____
JOB # _____ PART NUMBER: _____ REV. _____ DUE DATE: _____

SPECIFICATION: 3 COL _____

BAR CODE

Total Parts
RECEIVING: # PIECES _____ # BOXES _____ # LBS _____ # COILS _____
Received Y N

RECEIVING INSPECTION REQUIRED: Y N (circle one) ^{only print if required} BASE MATERIAL _____

BLUEPRINT ON FILE Y N (circle one) ^{Print either way} SURFACE AREA _____

~~PROCESS TYPE~~ ^{plating method} RACK _____ BARREL _____ REEL TO REEL _____ BASKET _____

LOT SIZE # PIECES PER RACK _____ # PIECES PER BARREL _____ # PCS BASKET _____

BARREL TYPE STANDARD _____ BUTTON _____ VIBRATORY _____

NOTES:

From parts table

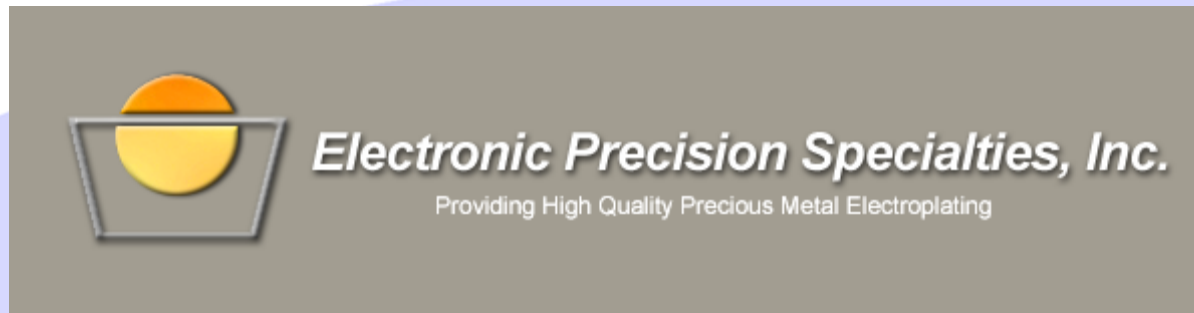
PACKAGING / SHIPPING

Driven by 50

QUALITY APPROVAL / FINAL INSPECTION

Client Identification / Logo

- Gives a personal / customized feel
- Identifies internal form if it reaches public
- Drawn with OIPI allows for scalability / customization

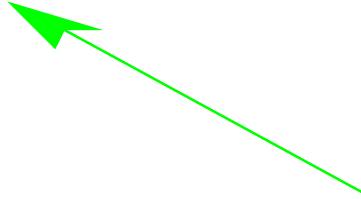




Electronic Precision Specialties Inc.

545 W. MERCURY LANE - BREA, CA 92821-4893 - (714) 256-8950 - FAX (714) 529-0833

SHOP TRAVELER



Logo:

```
rv = Set_Printer("ELLIPSE", (8/32)+.063:@FM:.050:@FM:(8/32)+.313:@FM:.300, No$) ; * circle
rv = Set_Printer("LINE", (8/32)+.000:@FM:.125:@FM:(8/32)+.376:@FM:.125, No$) ; * top
rv = Set_Printer("LINE", (8/32)+.000:@FM:.125:@FM:(8/32)+.060:@FM:.375, No$) ; * left side
rv = Set_Printer("LINE", (8/32)+.376:@FM:.125:@FM:(8/32)+.316:@FM:.375, No$) ; * right side
rv = Set_Printer("LINE", (8/32)+.060:@FM:.375:@FM:(8/32)+.316:@FM:.375, No$) ; * bottom
```

```
rv = Set_Printer("FONT", EPSI_Name$)
```

```
SetText = (25/32):@VM:(3/32):@VM:"<4320":@VM:"Electronic Precision Specialties Inc."
```

```
GoSub Set_Text
```

```
rv = Set_Printer("FONT", EPSI_Address$)
```

```
SetText = (27/32):@VM:(8/32):@VM:"<4320":@VM:"545 W. MERCURY LANE ": "-"
```

```
SetText := " BREA, CA 92821-4893 ": "-": " (714) 256-8950 ": "-": " FAX (714) 529-0833"
```

```
GoSub Set_Text
```

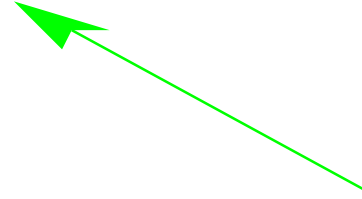
```
Arrow((80/32), (16/32))
```

```
return
```

Full Reverse!

- Printing white text on a black rectangle
- Stands out around normal / bold text
- Good for small flags and warnings
- Remember to watch the layers
- Use different fore/back colors for different effects

RECEIVING INSPECTION REQUIRED



Reverse Text Sample Code

Inspection:

```
rv = Set_Printer("FILLSTYLE", 0:@FM:0)
rv = Set_Printer("RECT", 3.5:@FM:(2/32):@FM:7:@FM:(10/32), 0)
rv = Set_Printer("FONT", Tahoma_12_R$)
SetText = 3.6:@VM:(3/32):@VM:"^5040":@VM:"RECEIVING INSPECTION REQUIRED"
GoSub Set_Text

Arrow(6, .5)
return
```

Think Inside the Box

- Box, label, and entry format
- Easy to group together
- Good for single or multiple lines of data
- Better than 'Label: Text' format
- Visually easier to locate data

SAMPLE BOX LABEL

My Sample Data

CUST NO. 770		CUSTOMER NAME Acme Parts Manufacturing, Inc.			PO NO A34598-44	JOB NO 158840	SALES ORDER / LINE 24601 / 1	LOT VALUE \$25.92	LOT NO 1 of 6
PART NO 065-1470-71 Set of System B				REV B3	BASE MATERIAL Aluminum 6061		PLATING METHOD Rack		
DATE RECEIVED 03/01/2005		PIECES RECEIVED 2,250		DATE DUE 03/15/2005		BLUEPRINT? Yes			
SURFACE AREA 5.26		NO. OF LOADS 1		LOAD SIZE 12		LOT SIZE 12		LOAD SURFACE AREA (sq.ft.) 0.4383	

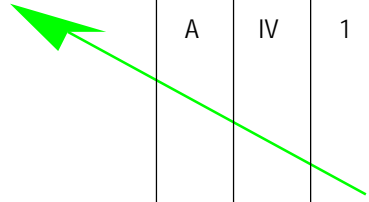
Boxes Sample Code

```
SetRect<-1> = 9.250+xA:@VM:0+yA:@VM:10.000 +xA:@VM:RH+yA:@VM:"LOT NO" :@VM:LotNu:
I
xA = (10/32)
SetRect<-1> = .000+xA:@VM:RH+yA:@VM:.750+xA:@VM:(RH*2)+yA:@VM:"CUST NO." :@VM:Custo:
SetRect<-1> = .750+xA:@VM:RH+yA:@VM:4.750+(28/32):@VM:(RH*2)+yA:@VM:"CUSTOMER NAME":@VM:Custo:
SetRect<-1> = 4.750+xA:@VM:RH+yA:@VM:6.250+xA:@VM:(RH*2)+yA:@VM:"PO NO" :@VM:POnum
SetRect<-1> = 6.250+xA:@VM:RH+yA:@VM:7.250+xA:@VM:(RH*2)+yA:@VM:"DATE RECEIVED" :@VM:DateR
SetRect<-1> = 7.250+xA:@VM:RH+yA:@VM:8.250+xA:@VM:(RH*2)+yA:@VM:"PIECES RECEIVED" :@VM:Recei
SetRect<-1> = 8.250+xA:@VM:RH+yA:@VM:9.250+xA:@VM:(RH*2)+yA:@VM:"DATE DUE" :@VM:DateD
SetRect<-1> = 9.250+xA:@VM:RH+yA:@VM:10.00+xA:@VM:(RH*2)+yA:@VM:"BLUEPRINT?" :@VM:BlueP
** = (10/32)
```

Grids and Tables...

- Similar to box format in structure
- Easy to group similar MV items together
- Combine with reverse text for stand-out header
- Good for manual entry of Excel-style data

SPECIFICATIONS						RECORD OF PROCESS		
NAME	PROCESS METAL	THICKNESS	TYPE	GD/CD	CLASS	TANK NO	AMPS	TIME
AMS2404	Electroless Nickel	.00035 / .0004	A	II	3			
TARNIBAN	Miscellaneous		A	IV	1			



Grid / Table Sample Code

* Actual specs data

```
NumSpecs = Count(Specs, @VM) + (Specs NE "")  
rv = Set_Printer("FONT", ArialN_10$)  
Format = "<~2232":@VM:"<~1584":@VM:"<~1440":@VM:"^~0576":@VM:"^~0576":@VM:"^~0576"  
Adj = 0.00
```

* Loop through all the regular specs

```
For SpecLoop = 1 to NumSpecs  
  rv = Set_Printer("POS", 0.000:@FM:2.239 + Adj + yA)  
  Text      = Specs<1, SpecLoop>  
  Text<0,-1> = ProcessMetal<1, SpecLoop>  
  Text<0,-1> = Thickness<1, SpecLoop>  
  Text<0,-1> = Type<1, SpecLoop>  
  Text<0,-1> = Grade<1, SpecLoop>  
  Text<0,-1> = Class<1, SpecLoop>  
  rv = Set_Printer("ADDTABLE", Format, "", Text, "", "", 0, 0:@FM:0.035 + xA)  
  Adj += 0.479  
Next SpecLoop  
return
```

Picture This

- Dramatic way to grab attention
- Good for previews / non-printed documents
- Useful for item identification
- Careful! - Make sure printers can handle it
- Caution! - Don't go overboard

PART PICTURE: (presentation/images/partpic.bmp)



* Part picture

```
rv = Set_Printer("FILLSTYLE", 1:@FM:0)
rv = Set_Printer("LINESTYLE", "":@FM:.500)
Picture = "presentation/images/partpic.bmp"
FileExists = Dir(Picture)
If FileExists then
    MaxPicWidth = 2.650
    Get_Graphic_Info(Picture, Size, Width, Height)
    NewWidth = 2.975 / Height * Width
    centerAdj = (MaxPicWidth - NewWidth) / 2
    Xpos1 = 7.150 + xAdj + centerAdj
    Ypos1 = 1.700 + yAdj
    SizeLoc = Xpos1+xA:@FM:Ypos1+yA:@FM:NewWidth:@FM:2.975
    rv = Set_Printer("BMP", Picture, SizeLoc, 0, No$)
```

* Picture frame

```
PrintPicFile = "(" : Picture : ")"
SetRect = 6.950+xA:@VM:1.500+yA:@VM:10.000+xA:@VM:4.875+yA:@VM:"PART PICTURE: " : P
rv = Set_Printer("FILLSTYLE", 1:@FM:0)
rv = Set_Printer("LINESTYLE", "":@FM:.500)
GoSub Set_Rect
```

Wrap It Up

- Problem - controlling large blocks of text
- Problem - window control not the same size as printed area
- Problem - font sizes (window vs. printed)
- Resolution - Utility('TEXTRECT')

The quick brown fox jumps over the lazy dogs. How quickly
quickly daft jumping zebras vex.

```
Until (WordWidth GT AreaWidth)

    * Check the length on the new text phrase
    TempLine := TempWord
    NewRect = Utility("TEXTRECT", "", TempLine:@FM:(0 + 1024 + 16):@FM:640:@FM:Font)
    NewWidth = NewRect<1>
    If NewWidth LE AreaWidth then
        NewLineText := TempWord
    end else
        TempLine = TempWord
        NewLineText := @TM:TempLine
    end

Next Word
Process<Line> = NewLineText
```

LONG BOX - NORMAL FONT

A typical post-game interview question asked of top NHL goal scorers: 'That was a beautiful go-ahead goal you scored, your 50th of the season, can you walk us through it' Player's Response: 'I don't know, the puck just ended up on my stick, I let the shot go and beat the goalie, it just kind of happened. It is difficult to believe ...

SMALLER BOX - SMALLER FONT

is difficult to believe that a great deal of an NHL game 'just happens'. It's called instinct, equal parts hard work and God-given talent and is often what differentiates good players from great players. Tom Cruise flew with 'it' in the movie 'Top Gun' and the best hockey players in the world have achieved superstardom because many of their decisions on the ice are made, seemingly, for them. As a fighter pilot or hockey player you don't always have

BIG BOX - BIG FONT

time to explore all your options and choose the best one. Often times, a Brett Hull 95 mph. One-timer that made every high-light tape North America, simply 'just happened'. Being able to switch to 'auto-pilot' and free up your focus for creativity and team play is enjoyed only by a select few. Let's look at the technique of the 'One-timer', something Brett Hull does instinctively.....thanks Dad!



COMPUTER SOLUTIONS, INC.

Thank You

Any Questions?