

## Protokoly registrace etap SO 217

### **Součást přílohy:**

*Protokol o registraci etapy 0*

*Protokol o registraci etapy 1*

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## **Protokol o registraci etapy 0**

# Registration Report (Target-Based)

## Report by station

User Name: gedstudent

Date: Sun Apr 2 19:02:12 2023

Project Name: 217\_etapa0\_2

Length Measurement Units: Meters

Coordinate System: X, Y, Z

10 STATION(S) - Mean Distance: 1.962 mm Max Distance: 2.898 mm  
 17 TARGET(S) - Mean Distance: 2.013 mm Max Distance: 3.367 mm

217\_etapa\_0030 - 5 Scanned Objects - Mean Distance: 1.339 mm

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0030	--	--	--	--	--
--	--	0.000 m				
	Target1	040	3	0.544 mm	0.248 mm	0.467 mm
0.125 mm	0.519 mm	11.027 m				
	Target2	043	2	2.635 mm	1.408 mm	-0.848 mm
-2.060 mm	0.661 mm	3.741 m				
	Target52	041	2	1.050 mm	0.984 mm	-0.365 mm
0.004 mm	0.824 mm	18.878 m				
	Target53	042	3	1.129 mm	0.094 mm	1.042 mm
0.424 mm	0.331 mm	5.961 m				

217\_etapa\_0029 - 7 Scanned Objects - Mean Distance: 1.840 mm

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0029	--	--	--	--	--
--	--	0.000 m				
	004	040	3	1.157 mm	-0.313 mm	0.259 mm
1.083 mm	0.561 mm	4.279 m				
	005	046	2	2.611 mm	-1.251 mm	-1.783 mm
1.441 mm	0.458 mm	17.419 m				
	006	044	3	1.684 mm	-0.657 mm	-0.392 mm
1.500 mm	0.307 mm	9.172 m				
	Target7	047	2	1.653 mm	0.373 mm	0.083 mm
1.608 mm	0.543 mm	6.241 m				
	Target54	042	3	1.299 mm	0.786 mm	0.797 mm
0.658 mm	0.587 mm	5.770 m				
	Target76	043	2	2.635 mm	-1.408 mm	0.848 mm
2.060 mm	0.911 mm	10.352 m				

**217\_etapa\_0028 - 8 Scanned Objects - Mean Distance: 1.942 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>				
217_etapa_0028	--	--	--	--	--	--
--	--	0.000 m				
	005	046	2	2.611 mm	1.251 mm	1.783 mm
-1.441 mm	0.348 mm	10.214 m				
	006	044	3	1.515 mm	-0.203 mm	0.916 mm
-1.189 mm	0.455 mm	2.268 m				
	004	040	3	1.411 mm	0.065 mm	-0.726 mm
-1.208 mm	0.398 mm	5.772 m				
	Target55	041	2	1.050 mm	-0.984 mm	0.365 mm
-0.004 mm	0.332 mm	9.372 m				
	Target56	042	3	2.309 mm	-0.881 mm	-1.840 mm
-1.082 mm	0.464 mm	12.654 m				
	Target73	047	2	1.653 mm	-0.373 mm	-0.083 mm
-1.608 mm	0.713 mm	3.760 m				
	Target74	045	2	3.049 mm	0.285 mm	-2.104 mm
-2.188 mm	4.849 mm	3.800 m				

**217\_etapa\_0027 - 4 Scanned Objects - Mean Distance: 2.051 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>				
217_etapa_0027	--	--	--	--	--	--
--	--	0.000 m				
	Target11	044	3	1.054 mm	0.860 mm	-0.524 mm
-0.312 mm	0.316 mm	6.206 m				
	Target12	--	--	--	--	--
--	0.568 mm	13.240 m				
	Target13	045	2	3.049 mm	-0.285 mm	2.104 mm
2.188 mm	1.155 mm	10.240 m				

**217\_etapa\_0024 - 4 Scanned Objects - Mean Distance: 1.426 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>				
217_etapa_0024	--	--	--	--	--	--
--	--	0.000 m				
	Target18	055	3	1.141 mm	0.050 mm	0.633 mm
0.948 mm	0.575 mm	2.213 m				
	Target19	--	--	--	--	--
--	0.698 mm	9.423 m				
	Target20	056	2	1.711 mm	-0.075 mm	-0.949 mm
-1.422 mm	0.648 mm	6.361 m				

**217\_etapa\_0023 - 6 Scanned Objects - Mean Distance: 1.758 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
<u>Z</u>	<u>Error to Scanner</u>					
--	217_etapa_0023	--	--	--	--	--
--	--	0.000 m				
	002	049	4	1.410 mm	0.014 mm	0.299 mm
-1.378 mm	0.455 mm	10.597 m				
	003	055	3	1.606 mm	-0.320 mm	-0.596 mm
-1.457 mm	0.839 mm	18.418 m				
	001	048	4	2.305 mm	-0.538 mm	0.552 mm
-2.172 mm	0.496 mm	8.337 m				
--	Target24	--	--	--	--	--
--	0.381 mm	8.277 m				
	Target72	056	2	1.711 mm	0.075 mm	0.949 mm
1.422 mm	1.488 mm	20.558 m				

**217\_etapa\_0021 - 7 Scanned Objects - Mean Distance: 1.906 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
<u>Z</u>	<u>Error to Scanner</u>					
--	217_etapa_0021	--	--	--	--	--
--	--	0.000 m				
	002	049	4	2.480 mm	-1.465 mm	0.177 mm
-1.994 mm	0.371 mm	5.140 m				
	001	048	4	1.908 mm	-1.222 mm	-0.098 mm
-1.463 mm	0.336 mm	8.173 m				
	003	055	3	0.577 mm	0.270 mm	-0.037 mm
0.509 mm	0.730 mm	17.779 m				
	Target58	051	4	2.034 mm	-1.423 mm	-0.802 mm
-1.212 mm	1.103 mm	21.316 m				
	Target70	053	2	1.321 mm	0.487 mm	-0.691 mm
1.015 mm	2.384 mm	12.540 m				
	Target71	054	2	3.113 mm	0.687 mm	1.647 mm
-2.551 mm	1.820 mm	8.618 m				

**217\_etapa\_0020 - 8 Scanned Objects - Mean Distance: 2.075 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0020	--	--	--	--	--
--	--	0.000 m				
	001	048	4	1.240 mm	0.145 mm	-1.198 mm
-0.289 mm	0.312 mm	8.593 m				
	002	049	4	1.170 mm	0.202 mm	-1.009 mm
-0.557 mm	0.305 mm	8.240 m				
	Target59	050	3	1.974 mm	-1.012 mm	-1.175 mm
-1.221 mm	1.036 mm	26.033 m				
	Target60	051	4	2.339 mm	-1.433 mm	0.537 mm
-1.769 mm	0.338 mm	9.176 m				
	Target66	052	2	3.367 mm	2.672 mm	-1.524 mm
-1.371 mm	3.163 mm	11.095 m				
	Target67	054	2	3.113 mm	-0.687 mm	-1.647 mm
2.551 mm	1.889 mm	20.686 m				
	Target69	053	2	1.321 mm	-0.487 mm	0.691 mm
-1.015 mm	0.769 mm	9.485 m				

**217\_etapa\_0019 - 7 Scanned Objects - Mean Distance: 2.898 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0019	--	--	--	--	--
--	--	0.000 m				
	001	048	4	4.308 mm	1.614 mm	0.744 mm
3.924 mm	0.857 mm	20.101 m				
	002	049	4	4.156 mm	1.249 mm	0.533 mm
3.928 mm	0.978 mm	20.195 m				
	Target32	052	2	3.367 mm	-2.672 mm	1.524 mm
1.371 mm	0.718 mm	7.063 m				
	Target61	050	3	1.839 mm	1.442 mm	0.998 mm
0.554 mm	0.478 mm	14.034 m				
	Target62	051	4	0.818 mm	0.512 mm	0.609 mm
-0.191 mm	0.313 mm	8.193 m				
	Target65	--	--	--	--	--
--	2.052 mm	12.301 m				

**217\_etapa\_0018 - 3 Scanned Objects - Mean Distance: 2.386 mm**

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0018	--	--	--	--	--
--	--	0.000 m				
	Target63	050	3	0.813 mm	-0.430 mm	0.177 mm
0.668 mm	0.389 mm	5.134 m				
	Target64	051	4	3.959 mm	2.345 mm	-0.343 mm
3.171 mm	0.838 mm	22.546 m				

## Report by target

User Name: gedstudent

Date: Sun Apr 2 19:02:12 2023

Project Name: 217\_etapa0\_2

Length Measurement Units: Meters

Coordinate System: X, Y, Z

10 STATION(S) - Mean Distance: 1.962 mm Max Distance: 2.898 mm  
17 TARGET(S) - Mean Distance: 2.013 mm Max Distance: 3.367 mm

**040** - 3 Scanned Objects - Mean Distance: 1.037 mm - Mean Position  
X=22.394 Y=-5.658 Z=159.707

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<b>Error to Scanner</b>						
Target1	217_etapa_0030	0.544 mm	0.248 mm	0.467 mm	0.125 mm	0.519 mm
11.027 m						
004	217_etapa_0028	1.411 mm	0.065 mm	-0.726 mm	-1.208 mm	0.398 mm
5.772 m						
004	217_etapa_0029	1.157 mm	-0.313 mm	0.259 mm	1.083 mm	0.561 mm
4.279 m						

**041** - 2 Scanned Objects - Mean Distance: 1.050 mm - Mean Position  
X=13.562 Y=-15.116 Z=161.984

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<b>Error to Scanner</b>						
Target52	217_etapa_0030	1.050 mm	0.984 mm	-0.365 mm	0.004 mm	
0.824 mm	18.878 m					
Target55	217_etapa_0028	1.050 mm	-0.984 mm	0.365 mm	-0.004 mm	
0.332 mm	9.372 m					

**042** - 3 Scanned Objects - Mean Distance: 1.579 mm - Mean Position  
X=26.801 Y=-14.205 Z=159.967

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<b>Error to Scanner</b>						
Target53	217_etapa_0030	1.129 mm	0.094 mm	1.042 mm	0.424 mm	
0.331 mm	5.961 m					
Target56	217_etapa_0028	2.309 mm	-0.881 mm	-1.840 mm	-1.082 mm	
0.464 mm	12.654 m					
Target54	217_etapa_0029	1.299 mm	0.786 mm	0.797 mm	0.658 mm	
0.587 mm	5.770 m					

**043 - 2 Scanned Objects - Mean Distance: 2.635 mm - Mean Position**  
X=33.738 Y=-7.998 Z=160.949

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target2	217_etapa_0030	2.635 mm	1.408 mm	-0.848 mm	-2.060 mm
0.661 mm	3.741 m				
Target76	217_etapa_0029	2.635 mm	-1.408 mm	0.848 mm	2.060 mm
0.911 mm	10.352 m				

**044 - 3 Scanned Objects - Mean Distance: 1.417 mm - Mean Position**  
X=15.403 Y=-5.349 Z=160.271

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target11	217_etapa_0027	1.054 mm	0.860 mm	-0.524 mm	-0.312 mm
0.316 mm	6.206 m				
006	217_etapa_0028	1.515 mm	-0.203 mm	0.916 mm	-1.189 mm
0.455 mm	2.268 m				
006	217_etapa_0029	1.684 mm	-0.657 mm	-0.392 mm	1.500 mm
0.307 mm	9.172 m				

**045 - 2 Scanned Objects - Mean Distance: 3.049 mm - Mean Position**  
X=16.427 Y=-10.153 Z=161.390

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target13	217_etapa_0027	3.049 mm	-0.285 mm	2.104 mm	2.188 mm
1.155 mm	10.240 m				
Target74	217_etapa_0028	3.049 mm	0.285 mm	-2.104 mm	-2.188 mm
4.849 mm	3.800 m				

**046 - 2 Scanned Objects - Mean Distance: 2.611 mm - Mean Position**  
X=8.010 Y=-1.663 Z=160.251

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
005	217_etapa_0028	2.611 mm	1.251 mm	1.783 mm	-1.441 mm
mm	10.214 m				0.348
005	217_etapa_0029	2.611 mm	-1.251 mm	-1.783 mm	1.441 mm
mm	17.419 m				0.458

**047 - 2 Scanned Objects - Mean Distance: 1.653 mm - Mean Position**  
X=20.135 Y=-4.371 Z=161.657

Object	Corresponding	Residual	Delta	Delta	Delta
	Distance				
Name	Station	Error	X	Y	Z



<b>Fitting</b>	<b>Distance</b>					
<b>Name</b>	<b>Station</b>	<b>Error</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	
<b>Error to Scanner</b>						
Target73	217_etapa_0028	1.653 mm	-0.373 mm	-0.083 mm	-1.608 mm	
0.713 mm	3.760 m					
Target7	217_etapa_0029	1.653 mm	0.373 mm	0.083 mm	1.608 mm	
0.543 mm	6.241 m					

**048 - 4 Scanned Objects - Mean Distance: 2.440 mm - Mean Position**  
X=-29.992 Y=-4.576 Z=160.900

<b>Object</b>	<b>Corresponding</b>	<b>Residual</b>	<b>Delta</b>	<b>Delta</b>	<b>Delta</b>	
<b>Fitting</b>	<b>Distance</b>					
<b>Name</b>	<b>Station</b>	<b>Error</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	
<b>Error to Scanner</b>						
001	217_etapa_0019	4.308 mm	1.614 mm	0.744 mm	3.924 mm	0.857
mm	20.101 m					
001	217_etapa_0020	1.240 mm	0.145 mm	-1.198 mm	-0.289 mm	0.312
mm	8.593 m					
001	217_etapa_0021	1.908 mm	-1.222 mm	-0.098 mm	-1.463 mm	0.336
mm	8.173 m					
001	217_etapa_0023	2.305 mm	-0.538 mm	0.552 mm	-2.172 mm	0.496
mm	8.337 m					

**049 - 4 Scanned Objects - Mean Distance: 2.304 mm - Mean Position**  
X=-27.999 Y=0.820 Z=160.986

<b>Object</b>	<b>Corresponding</b>	<b>Residual</b>	<b>Delta</b>	<b>Delta</b>	<b>Delta</b>	
<b>Fitting</b>	<b>Distance</b>					
<b>Name</b>	<b>Station</b>	<b>Error</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	
<b>Error to Scanner</b>						
002	217_etapa_0019	4.156 mm	1.249 mm	0.533 mm	3.928 mm	0.978
mm	20.195 m					
002	217_etapa_0020	1.170 mm	0.202 mm	-1.009 mm	-0.557 mm	0.305
mm	8.240 m					
002	217_etapa_0021	2.480 mm	-1.465 mm	0.177 mm	-1.994 mm	0.371
mm	5.140 m					
002	217_etapa_0023	1.410 mm	0.014 mm	0.299 mm	-1.378 mm	0.455
mm	10.597 m					

**050 - 3 Scanned Objects - Mean Distance: 1.542 mm - Mean Position**  
X=-61.568 Y=5.912 Z=164.891

<b>Object</b>	<b>Corresponding</b>	<b>Residual</b>	<b>Delta</b>	<b>Delta</b>	<b>Delta</b>	
<b>Fitting</b>	<b>Distance</b>					
<b>Name</b>	<b>Station</b>	<b>Error</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	
<b>Error to Scanner</b>						
Target61	217_etapa_0019	1.839 mm	1.442 mm	0.998 mm	0.554 mm	
0.478 mm	14.034 m					
Target59	217_etapa_0020	1.974 mm	-1.012 mm	-1.175 mm	-1.221 mm	
1.036 mm	26.033 m					
Target63	217_etapa_0018	0.813 mm	-0.430 mm	0.177 mm	0.668 mm	
0.389 mm	5.134 m					

**051 - 4 Scanned Objects - Mean Distance: 2.287 mm - Mean Position**  
X=-44.283 Y=-2.764 Z=163.254

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
Target62	217_etapa_0019	0.818 mm	0.512 mm	0.609 mm	-0.191 mm
0.313 mm	8.193 m				
Target60	217_etapa_0020	2.339 mm	-1.433 mm	0.537 mm	-1.769 mm
0.338 mm	9.176 m				
Target58	217_etapa_0021	2.034 mm	-1.423 mm	-0.802 mm	-1.212 mm
1.103 mm	21.316 m				
Target64	217_etapa_0018	3.959 mm	2.345 mm	-0.343 mm	3.171 mm
0.838 mm	22.546 m				

**052 - 2 Scanned Objects - Mean Distance: 3.367 mm - Mean Position**  
X=-42.996 Y=9.892 Z=163.202

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
Target32	217_etapa_0019	3.367 mm	-2.672 mm	1.524 mm	1.371 mm
0.718 mm	7.063 m				
Target66	217_etapa_0020	3.367 mm	2.672 mm	-1.524 mm	-1.371 mm
3.163 mm	11.095 m				

**053 - 2 Scanned Objects - Mean Distance: 1.321 mm - Mean Position**  
X=-31.102 Y=9.336 Z=162.929

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
Target69	217_etapa_0020	1.321 mm	-0.487 mm	0.691 mm	-1.015 mm
0.769 mm	9.485 m				
Target70	217_etapa_0021	1.321 mm	0.487 mm	-0.691 mm	1.015 mm
2.384 mm	12.540 m				

**054 - 2 Scanned Objects - Mean Distance: 3.113 mm - Mean Position**  
X=-15.523 Y=3.713 Z=162.053

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
Target67	217_etapa_0020	3.113 mm	-0.687 mm	-1.647 mm	2.551 mm
1.889 mm	20.686 m				
Target71	217_etapa_0021	3.113 mm	0.687 mm	1.647 mm	-2.551 mm
1.820 mm	8.618 m				

**055 - 3 Scanned Objects - Mean Distance: 1.108 mm - Mean Position**  
X=-5.399 Y=-1.520 Z=161.951

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
003	217_etapa_0021	0.577 mm	0.270 mm	-0.037 mm	0.509 mm
0.730 mm	17.779 m				
003	217_etapa_0023	1.606 mm	-0.320 mm	-0.596 mm	-1.457 mm
0.839 mm	18.418 m				
Target18	217_etapa_0024	1.141 mm	0.050 mm	0.633 mm	0.948 mm
0.575 mm	2.213 m				

**056 - 2 Scanned Objects - Mean Distance: 1.711 mm - Mean Position**  
X=-5.092 Y=2.378 Z=164.005

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
<u>Name</u>	<u>Station</u>	<u>Error</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
<u>Error to Scanner</u>					
Target72	217_etapa_0023	1.711 mm	0.075 mm	0.949 mm	1.422 mm
1.488 mm	20.558 m				
Target20	217_etapa_0024	1.711 mm	-0.075 mm	-0.949 mm	-1.422 mm
0.648 mm	6.361 m				

## **Protokol o registraci etapy 1**



# Registration Report (Target-Based)

## Report by station

User Name: gedstudent

Date: Sun Apr 2 18:02:26 2023

Project Name: 217\_etapa0

Length Measurement Units: Meters

Coordinate System: X, Y, Z

12 STATION(S) - Mean Distance: 1.78 mm Max Distance: 2.69 mm  
 19 TARGET(S) - Mean Distance: 1.87 mm Max Distance: 3.99 mm

217\_etapa\_0030 - 5 Scanned Objects - Mean Distance: 1.13 mm

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0030	--	--	--	--	--
--	--	0.00 m				
	Target180	127	3	0.48 mm	0.30 mm	0.37 mm
0.03 mm	0.52 mm	11.03 m				
	Target181	133	2	1.46 mm	1.00 mm	-1.05 mm
0.20 mm	0.66 mm	3.74 m				
	Target234	128	3	1.30 mm	0.29 mm	1.24 mm
0.28 mm	0.41 mm	5.96 m				
	Target235	129	2	1.28 mm	1.19 mm	-0.41 mm
0.23 mm	0.97 mm	18.88 m				

217\_etapa\_0029 - 7 Scanned Objects - Mean Distance: 1.56 mm

Delta	Object Fitting	Corresponding Distance	Scan	Residual	Delta	Delta
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0029	--	--	--	--	--
--	--	0.00 m				
	Target183	127	3	1.12 mm	-0.16 mm	0.30 mm
1.07 mm	0.56 mm	4.28 m				
	Target184	130	3	2.50 mm	-2.23 mm	-1.12 mm
0.17 mm	0.46 mm	17.42 m				
	Target185	131	3	1.53 mm	-0.59 mm	-0.25 mm
1.39 mm	0.31 mm	9.17 m				
	Target186	132	2	1.61 mm	0.44 mm	-0.05 mm
1.54 mm	0.54 mm	6.24 m				
	Target231	128	3	1.15 mm	0.92 mm	0.56 mm
0.41 mm	0.63 mm	5.77 m				
	Target233	133	2	1.46 mm	-1.00 mm	1.05 mm
0.20 mm	0.75 mm	10.35 m				

**217\_etapa\_0028 - 8 Scanned Objects - Mean Distance: 1.99 mm**

Delta	Object Fitting		Corresponding Distance	Scan	Residual	Delta	
	Name	Target				X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>	<u>Per Target</u>	<u>Error</u>			
--	--	0.00 m	--	--	--	--	--
		Target187	130	3	3.30 mm	0.95 mm	1.82 mm
-2.59 mm	0.35 mm	10.21 m					
		Target188	131	3	1.54 mm	0.06 mm	0.99 mm
-1.18 mm	0.46 mm	2.27 m					
		Target189	127	3	1.29 mm	-0.14 mm	-0.67 mm
-1.10 mm	0.40 mm	5.77 m					
		Target227	132	2	1.61 mm	-0.44 mm	0.05 mm
-1.54 mm	0.71 mm	3.76 m					
		Target228	135	2	2.66 mm	-1.17 mm	-0.95 mm
-2.19 mm	1.25 mm	3.80 m					
		Target229	129	2	1.28 mm	-1.19 mm	0.41 mm
-0.23 mm	0.39 mm	9.37 m					
		Target230	128	3	2.27 mm	-1.21 mm	-1.80 mm
-0.69 mm	0.60 mm	12.65 m					

**217\_etapa\_0027 - 4 Scanned Objects - Mean Distance: 1.80 mm**

Delta	Object Fitting		Corresponding Distance	Scan	Residual	Delta	
	Name	Target				X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>	<u>Per Target</u>	<u>Error</u>			
--	--	0.00 m	--	--	--	--	--
		Target190	131	3	0.94 mm	0.54 mm	-0.74 mm
0.21 mm	0.32 mm	6.21 m					
		Target191	--	--	--	--	--
--	0.57 mm	13.24 m					
		Target192	135	2	2.66 mm	1.17 mm	0.95 mm
2.19 mm	1.15 mm	10.24 m					

**217\_etapa\_0026 - 3 Scanned Objects - Mean Distance: 1.53 mm**

Delta	Object Fitting		Corresponding Distance	Scan	Residual	Delta	
	Name	Target				X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>	<u>Per Target</u>	<u>Error</u>			
--	--	0.00 m	--	--	--	--	--
		Target193	130	3	2.83 mm	1.28 mm	-0.70 mm
2.42 mm	0.34 mm	4.91 m					
		Target194	120	3	0.23 mm	0.04 mm	0.12 mm
0.19 mm	0.58 mm	8.93 m					

**217\_etapa\_0025 - 2 Scanned Objects - Mean Distance: 1.59 mm**

Delta	Object	Corresponding	Scan	Residual	Delta	Delta
	Fitting	Distance		Error	X	Y
<u>Z</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>	<u>Y</u>
	<u>Error to Scanner</u>					
	217_etapa_0025	--	--	--	--	--
--	--	0.00 m				
	Target196	134	2	1.59 mm	0.06 mm	-1.59 mm
0.13 mm	0.63 mm	5.74 m				

**217\_etapa\_0024 - 4 Scanned Objects - Mean Distance: 0.97 mm**

Delta	Object	Corresponding	Scan	Residual	Delta	Delta
	Fitting	Distance		Error	X	Y
<u>Z</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>	<u>Y</u>
	<u>Error to Scanner</u>					
	217_etapa_0024	--	--	--	--	--
--	--	0.00 m				
	Target197	134	2	1.59 mm	-0.06 mm	1.59 mm
0.13 mm	0.57 mm	2.21 m				
	Target198	--	--	--	--	--
--	0.70 mm	9.42 m				
	Target199	121	2	0.34 mm	-0.06 mm	-0.18 mm
-0.28 mm	0.65 mm	6.36 m				

**217\_etapa\_0023 - 6 Scanned Objects - Mean Distance: 1.33 mm**

Delta	Object	Corresponding	Scan	Residual	Delta	Delta
	Fitting	Distance		Error	X	Y
<u>Z</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>	<u>Y</u>
	<u>Error to Scanner</u>					
	217_etapa_0023	--	--	--	--	--
--	--	0.00 m				
	Target200	122	4	1.44 mm	0.05 mm	0.25 mm
-1.42 mm	0.46 mm	10.60 m				
	Target201	120	3	1.21 mm	-0.39 mm	-0.28 mm
-1.11 mm	0.84 mm	18.42 m				
	Target202	123	4	2.34 mm	-0.43 mm	0.63 mm
-2.21 mm	0.50 mm	8.34 m				
	Target203	--	--	--	--	--
--	0.38 mm	8.28 m				
	Target226	121	2	0.34 mm	0.06 mm	0.18 mm
0.28 mm	2.79 mm	20.56 m				



**217\_etapa\_0021 - 7 Scanned Objects - Mean Distance: 2.05 mm**

Delta	Object Fitting		Corresponding Distance		Scan	Residual	Delta	
	Name	Target	Per	Target			X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>						
--	--	0.00 m	--	--	--	--	--	--
		Target204		122	4	2.46 mm	-1.39 mm	0.50 mm
-1.97 mm	0.37 mm	5.14 m						
		Target205		123	4	1.89 mm	-1.22 mm	0.17 mm
-1.43 mm	0.34 mm	8.17 m						
		Target206		120	3	1.00 mm	0.35 mm	0.16 mm
0.92 mm	0.73 mm	17.78 m						
		Target223		117	4	1.97 mm	-1.39 mm	-0.82 mm
-1.13 mm	1.12 mm	21.32 m						
		Target224		125	2	0.99 mm	0.32 mm	-0.76 mm
0.54 mm	2.28 mm	12.54 m						
		Target225		126	2	3.99 mm	1.86 mm	2.35 mm
-2.64 mm	1.98 mm	8.62 m						

**217\_etapa\_0020 - 8 Scanned Objects - Mean Distance: 2.16 mm**

Delta	Object Fitting		Corresponding Distance		Scan	Residual	Delta	
	Name	Target	Per	Target			X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>						
--	--	0.00 m	--	--	--	--	--	--
		Target207		123	4	1.28 mm	-0.14 mm	-1.24 mm
-0.26 mm	0.31 mm	8.59 m						
		Target208		122	4	1.20 mm	-0.04 mm	-1.08 mm
-0.53 mm	0.31 mm	8.24 m						
		Target218		124	2	2.50 mm	0.79 mm	-1.42 mm
-1.90 mm	3.22 mm	11.10 m						
		Target219		125	2	0.99 mm	-0.32 mm	0.76 mm
-0.54 mm	0.77 mm	9.48 m						
		Target220		126	2	3.99 mm	-1.86 mm	-2.35 mm
2.64 mm	1.04 mm	20.68 m						
		Target221		117	4	2.59 mm	-1.46 mm	0.95 mm
-1.92 mm	0.45 mm	9.18 m						
		Target222		118	3	2.54 mm	-0.89 mm	-1.52 mm
-1.84 mm	1.09 mm	26.03 m						

**217\_etapa\_0019 - 7 Scanned Objects - Mean Distance: 2.69 mm**

Object		Corresponding	Scan	Residual	Delta	Delta
Delta	Fitting	Distance				
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0019	--	--	--	--	--
--	--	0.00 m				
	Target209	123	4	4.32 mm	1.80 mm	0.44 mm
3.91 mm	0.86 mm	20.10 m				
	Target210	122	4	4.16 mm	1.38 mm	0.33 mm
3.91 mm	0.98 mm	20.19 m				
	Target211	124	2	2.50 mm	-0.79 mm	1.42 mm
1.90 mm	0.72 mm	7.06 m				
	Target215	118	3	1.74 mm	1.22 mm	0.93 mm
0.82 mm	0.68 mm	14.03 m				
	Target216	117	4	0.87 mm	0.68 mm	0.51 mm
-0.17 mm	0.48 mm	8.19 m				
	Target217	119	2	2.57 mm	2.48 mm	-0.29 mm
0.62 mm	2.08 mm	12.30 m				

**217\_etapa\_0018 - 4 Scanned Objects - Mean Distance: 2.58 mm**

Object		Corresponding	Scan	Residual	Delta	Delta
Delta	Fitting	Distance				
	Name	Target	Per Target	Error	X	Y
Z	Error to Scanner					
--	217_etapa_0018	--	--	--	--	--
--	--	0.00 m				
	Target212	119	2	2.57 mm	-2.48 mm	0.29 mm
-0.62 mm	0.50 mm	6.70 m				
	Target213	118	3	1.22 mm	-0.33 mm	0.59 mm
1.02 mm	0.41 mm	5.13 m				
	Target214	117	4	3.94 mm	2.16 mm	-0.64 mm
3.23 mm	0.84 mm	22.55 m				

## Report by target

User Name: gedstudent

Date: Sun Apr 2 18:02:26 2023

Project Name: 217\_etapa0

Length Measurement Units: Meters

Coordinate System: X, Y, Z

12 STATION(S) - Mean Distance: 1.78 mm Max Distance: 2.69 mm  
19 TARGET(S) - Mean Distance: 1.87 mm Max Distance: 3.99 mm

**117 - 4 Scanned Objects - Mean Distance: 2.34 mm - Mean Position**  
X=-53.00 Y=12.38 Z=164.49

Object Fitting	Object Name	Corresponding Distance Station	Residual Error	Delta X	Delta Y	Delta Z
	Target214	217_etapa_0018	3.94 mm	2.16 mm	-0.64 mm	3.23 mm
	22.55 m					0.84
	Target223	217_etapa_0021	1.97 mm	-1.39 mm	-0.82 mm	-1.13 mm
	21.32 m					1.12
	Target216	217_etapa_0019	0.87 mm	0.68 mm	0.51 mm	-0.17 mm
	8.19 m					0.48
	Target221	217_etapa_0020	2.59 mm	-1.46 mm	0.95 mm	-1.92 mm
	9.18 m					0.45

**118 - 3 Scanned Objects - Mean Distance: 1.83 mm - Mean Position**  
X=-67.71 Y=24.94 Z=166.13

Object Fitting	Object Name	Corresponding Distance Station	Residual Error	Delta X	Delta Y	Delta Z
	Target213	217_etapa_0018	1.22 mm	-0.33 mm	0.59 mm	1.02 mm
	5.13 m					0.41
	Target222	217_etapa_0020	2.54 mm	-0.89 mm	-1.52 mm	-1.84 mm
	26.03 m					1.09
	Target215	217_etapa_0019	1.74 mm	1.22 mm	0.93 mm	0.82 mm
	14.03 m					0.68

**119 - 2 Scanned Objects - Mean Distance: 2.57 mm - Mean Position**  
X=-60.78 Y=31.00 Z=164.94

Object Fitting	Object Name	Corresponding Distance Station	Residual Error	Delta X	Delta Y	Delta Z
	Target212	217_etapa_0018	2.57 mm	-2.48 mm	0.29 mm	-0.62 mm
	6.70 m					0.50
	Target217	217_etapa_0019	2.57 mm	2.48 mm	-0.29 mm	0.62 mm
						2.08

mm 12.30 m

**120 - 3 Scanned Objects - Mean Distance: 0.81 mm - Mean Position**  
X=-14.95 Y=4.29 Z=163.19

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<b>Error to Scanner</b>					
Target194	217_etapa_0026	0.23 mm	0.04 mm	0.12 mm	0.19 mm
mm 8.93 m					0.58
Target201	217_etapa_0023	1.21 mm	-0.39 mm	-0.28 mm	-1.11 mm
mm 18.42 m					0.84
Target206	217_etapa_0021	1.00 mm	0.35 mm	0.16 mm	0.92 mm
mm 17.78 m					0.73

**121 - 2 Scanned Objects - Mean Distance: 0.34 mm - Mean Position**  
X=-13.71 Y=8.00 Z=165.24

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<b>Error to Scanner</b>					
Target199	217_etapa_0024	0.34 mm	-0.06 mm	-0.18 mm	-0.28 mm
mm 6.36 m					0.65
Target226	217_etapa_0023	0.34 mm	0.06 mm	0.18 mm	0.28 mm
mm 20.56 m					2.79

**122 - 4 Scanned Objects - Mean Distance: 2.32 mm - Mean Position**  
X=-36.33 Y=11.96 Z=162.22

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<b>Error to Scanner</b>					
Target210	217_etapa_0019	4.16 mm	1.38 mm	0.33 mm	3.91 mm
mm 20.19 m					0.98
Target200	217_etapa_0023	1.44 mm	0.05 mm	0.25 mm	-1.42 mm
mm 10.60 m					0.46
Target208	217_etapa_0020	1.20 mm	-0.04 mm	-1.08 mm	-0.53 mm
mm 8.24 m					0.31
Target204	217_etapa_0021	2.46 mm	-1.39 mm	0.50 mm	-1.97 mm
mm 5.14 m					0.37

**123 - 4 Scanned Objects - Mean Distance: 2.46 mm - Mean Position**  
X=-39.56 Y=7.20 Z=162.14

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<b>Error to Scanner</b>					
Target209	217_etapa_0019	4.32 mm	1.80 mm	0.44 mm	3.91 mm
mm 20.10 m					0.86
Target202	217_etapa_0023	2.34 mm	-0.43 mm	0.63 mm	-2.21 mm
mm 8.34 m					0.50
Target207	217_etapa_0020	1.28 mm	-0.14 mm	-1.24 mm	-0.26 mm
					0.31

mm 8.59 m  
 Target205 217\_etapa\_0021 1.89 mm -1.22 mm 0.17 mm -1.43 mm 0.34  
 mm 8.17 m

**124 - 2 Scanned Objects - Mean Distance: 2.50 mm - Mean Position**  
 X=-48.72 Y=24.36 Z=164.44

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target211	217_etapa_0019	2.50 mm	-0.79 mm	1.42 mm	1.90 mm
mm 7.06 m					
Target218	217_etapa_0020	2.50 mm	0.79 mm	-1.42 mm	-1.90 mm
mm 11.10 m					

**125 - 2 Scanned Objects - Mean Distance: 0.99 mm - Mean Position**  
 X=-37.31 Y=20.98 Z=164.17

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target219	217_etapa_0020	0.99 mm	-0.32 mm	0.76 mm	-0.54 mm
mm 9.48 m					
Target224	217_etapa_0021	0.99 mm	0.32 mm	-0.76 mm	0.54 mm
mm 12.54 m					

**126 - 2 Scanned Objects - Mean Distance: 3.99 mm - Mean Position**  
 X=-23.53 Y=11.79 Z=163.29

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target220	217_etapa_0020	3.99 mm	-1.86 mm	-2.35 mm	2.64 mm
mm 20.68 m					
Target225	217_etapa_0021	3.99 mm	1.86 mm	2.35 mm	-2.64 mm
mm 8.62 m					

**127 - 3 Scanned Objects - Mean Distance: 0.96 mm - Mean Position**  
 X=11.04 Y=-6.40 Z=160.95

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta
Name	Station	Error	X	Y	Z
<u>Error to Scanner</u>					
Target189	217_etapa_0028	1.29 mm	-0.14 mm	-0.67 mm	-1.10 mm
mm 5.77 m					
Target180	217_etapa_0030	0.48 mm	0.30 mm	0.37 mm	0.03 mm
mm 11.03 m					
Target183	217_etapa_0029	1.12 mm	-0.16 mm	0.30 mm	1.07 mm
mm 4.28 m					

**128 - 3 Scanned Objects - Mean Distance: 1.58 mm - Mean Position**  
X=13.27 Y=-15.76 Z=161.21

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target230	217_etapa_0028	2.27 mm	-1.21 mm	-1.80 mm	-0.69 mm	0.60
mm	12.65 m					
Target234	217_etapa_0030	1.30 mm	0.29 mm	1.24 mm	0.28 mm	0.41
mm	5.96 m					
Target231	217_etapa_0029	1.15 mm	0.92 mm	0.56 mm	0.41 mm	0.63
mm	5.77 m					

**129 - 2 Scanned Objects - Mean Distance: 1.28 mm - Mean Position**  
X=0.20 Y=-13.46 Z=163.22

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target229	217_etapa_0028	1.28 mm	-1.19 mm	0.41 mm	-0.23 mm	0.39
mm	9.37 m					
Target235	217_etapa_0030	1.28 mm	1.19 mm	-0.41 mm	0.23 mm	0.97
mm	18.88 m					

**130 - 3 Scanned Objects - Mean Distance: 2.88 mm - Mean Position**  
X=-1.96 Y=0.93 Z=161.49

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target187	217_etapa_0028	3.30 mm	0.95 mm	1.82 mm	-2.59 mm	0.35
mm	10.21 m					
Target184	217_etapa_0029	2.50 mm	-2.23 mm	-1.12 mm	0.17 mm	0.46
mm	17.42 m					
Target193	217_etapa_0026	2.83 mm	1.28 mm	-0.70 mm	2.42 mm	0.34
mm	4.91 m					

**131 - 3 Scanned Objects - Mean Distance: 1.33 mm - Mean Position**  
X=4.33 Y=-4.42 Z=161.51

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target188	217_etapa_0028	1.54 mm	0.06 mm	0.99 mm	-1.18 mm	0.46
mm	2.27 m					
Target185	217_etapa_0029	1.53 mm	-0.59 mm	-0.25 mm	1.39 mm	0.31
mm	9.17 m					
Target190	217_etapa_0027	0.94 mm	0.54 mm	-0.74 mm	-0.21 mm	0.32
mm	6.21 m					

**132 - 2 Scanned Objects - Mean Distance: 1.61 mm - Mean Position**

X=9.16 Y=-4.61 Z=162.90

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target227	217_etapa_0028	1.61 mm	-0.44 mm	0.05 mm	-1.54 mm	0.71
mm	3.76 m					
Target186	217_etapa_0029	1.61 mm	0.44 mm	-0.05 mm	1.54 mm	0.54
mm	6.24 m					

**133 - 2 Scanned Objects - Mean Distance: 1.46 mm - Mean Position**  
X=21.49 Y=-11.40 Z=162.19

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target233	217_etapa_0029	1.46 mm	-1.00 mm	1.05 mm	0.20 mm	0.75
mm	10.35 m					
Target181	217_etapa_0030	1.46 mm	1.00 mm	-1.05 mm	-0.20 mm	0.66
mm	3.74 m					

**134 - 2 Scanned Objects - Mean Distance: 1.59 mm - Mean Position**  
X=-14.95 Y=4.29 Z=163.19

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target197	217_etapa_0024	1.59 mm	-0.06 mm	1.59 mm	0.13 mm	0.57
mm	2.21 m					
Target196	217_etapa_0025	1.59 mm	0.06 mm	-1.59 mm	-0.13 mm	0.63
mm	5.74 m					

**135 - 2 Scanned Objects - Mean Distance: 2.66 mm - Mean Position**  
X=4.17 Y=-9.33 Z=162.63

Object Fitting	Corresponding Distance	Residual	Delta	Delta	Delta	
Name	Station	Error	X	Y	Z	
<u>Error to Scanner</u>						
Target228	217_etapa_0028	2.66 mm	-1.17 mm	-0.95 mm	-2.19 mm	1.25
mm	3.80 m					
Target192	217_etapa_0027	2.66 mm	1.17 mm	0.95 mm	2.19 mm	1.15
mm	10.24 m					

## **Protokol o registraci etapy 2**



# Registration Report (Target-Based)

## Report by station

User Name: gedstudent

Date: Sun Jan 15 09:39:07 2023

Project Name: 217\_etapa2\_2

Length Measurement Units: Meters

Coordinate System: X, Y, Z

12 STATION(S) - Mean Distance: 1.023277 mm Max Distance: 1.512406 mm  
 21 TARGET(S) - Mean Distance: 0.994982 mm Max Distance: 1.498352 mm

217\_etapa\_3071 - 6 Scanned Objects - Mean Distance: 1.046292 mm

Delta	Object Name	Corresponding Delta	Fitting Target	Scan Distance Per Target	Residual Error	Delta X
Y	Z	Error	to Scanner			
--	217_etapa_3071	--	--	--	--	--
--	--	--	0.000000 m			
	012		054	4	0.774199 mm	-0.331276 mm -
0.240109 mm	0.657258 mm	0.859570 mm	16.823422 m			
	013		052	4	0.695381 mm	0.692908 mm
0.020981 mm	0.054709 mm	0.481671 mm	11.824175 m			
	Target15	--	--	--	--	--
--	--	0.695223 mm	4.310485 m			
	Target57		055	4	1.422967 mm	-0.743012 mm
0.068772 mm	-1.211626 mm	0.424815 mm	4.336170 m			
	Target58		058	2	1.292622 mm	0.762760 mm
0.300713 mm	0.999320 mm	0.565981 mm	19.679349 m			

217\_etapa\_3070 - 5 Scanned Objects - Mean Distance: 0.802666 mm

Delta	Object Name	Corresponding Delta	Fitting Target	Scan Distance Per Target	Residual Error	Delta X
Y	Z	Error	to Scanner			
--	217_etapa_3070	--	--	--	--	--
--	--	--	0.000000 m			
	013		052	4	0.405076 mm	-0.104577 mm
0.190152 mm	-0.342042 mm	0.491929 mm	2.893326 m			
	012		054	4	1.010916 mm	-0.453153 mm
0.501648 mm	0.751634 mm	0.578344 mm	8.075490 m			
	Target21		057	2	0.633146 mm	-0.620416 mm -
0.112650 mm	0.057165 mm	0.637186 mm	4.971132 m			
	Target61		055	4	1.161525 mm	0.867937 mm -
0.635475 mm	-0.438174 mm	0.337517 mm	7.357015 m			

217\_etapa\_3069 - 8 Scanned Objects - Mean Distance: 0.938259 mm

Object	Corresponding	Scan	Residual	Delta
--------	---------------	------	----------	-------

Delta	Delta	Fitting	Distance			
	Name	Target	Per Target	Error		X
Y	Z	Error	to Scanner			
217_etapa_3069		--	--	--	--	--
--	--	--	0.000000 m			
	013	052	4	0.846565 mm	-0.827367 mm	-
0.113189 mm	-0.139012 mm	0.429285 mm	4.458793 m			
	022	053	2	0.582983 mm	0.037971 mm	-
0.126394 mm	0.567849 mm	0.381454 mm	11.289204 m			
	012	054	4	0.977467 mm	0.359062 mm	
0.557209 mm	-0.718356 mm	0.512749 mm	1.760637 m			
	Target59	055	4	1.356560 mm	0.603975 mm	
0.131234 mm	1.207579 mm	0.629953 mm	14.178385 m			
	Target60	058	2	1.292622 mm	-0.762760 mm	-
0.300713 mm	-0.999320 mm	0.416252 mm	9.630510 m			
	Target77	056	2	0.878471 mm	-0.166966 mm	-
0.836051 mm	-0.211784 mm	1.535964 mm	4.467530 m			
	Target78	057	2	0.633146 mm	0.620416 mm	
0.112650 mm	-0.057165 mm	0.473093 mm	4.566258 m			

**217\_etapa\_3068 - 7 Scanned Objects - Mean Distance: 0.678288 mm**

Object		Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
Y	Z	Error	to Scanner		
217_etapa_3068		--	--	--	--
--	--	--	0.000000 m		
	012	054	4	1.152442 mm	0.425367 mm
0.818747 mm	-0.690535 mm	0.491466 mm	5.745653 m		
	Target23	039	3	0.000000 mm	0.000000 mm
0.000000 mm	0.000000 mm	0.420306 mm	11.134745 m		
	022	053	2	0.582983 mm	-0.037971 mm
0.126394 mm	-0.567849 mm	0.446492 mm	4.535877 m		
	013	052	4	0.498499 mm	0.239036 mm
0.097944 mm	0.426345 mm	0.469424 mm	11.165985 m		
	Target26	056	2	0.878471 mm	0.166966 mm
0.836051 mm	0.211784 mm	1.107509 mm	10.409908 m		
	Target62	055	4	0.957335 mm	-0.728901 mm
0.435469 mm	0.442222 mm	0.590892 mm	21.008580 m		

**217\_etapa\_3067 - 4 Scanned Objects - Mean Distance: 0.757213 mm**

	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
Y	Z	Error	to Scanner		
217_etapa_3067		--	--	--	--
--	--	--	0.000000 m		
	019	038	3	0.710843 mm	-0.527994 mm
0.099636 mm	0.465395 mm	0.395052 mm	11.789935 m		
	020	039	3	0.434787 mm	-0.186809 mm
0.255971 mm	-0.297693 mm	0.388059 mm	6.263169 m		
	Target29	040	2	1.126008 mm	1.072205 mm
0.234502 mm	-0.251554 mm	0.662065 mm	3.685877 m		

**217\_etapa\_3066 - 9 Scanned Objects - Mean Distance: 1.072442 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3066	--	--	--	--
--	--	--	0.000000 m		
	017	048	4	1.705847 mm	1.211520 mm
0.340099 mm	1.151724 mm	0.610379 mm	4.223798 m		
	020	039	3	0.434787 mm	0.186809 mm -
0.255971 mm	0.297693 mm	0.377112 mm	11.797660 m		
	018	049	4	0.596818 mm	0.040732 mm -
0.209891 mm	-0.557206 mm	0.556639 mm	13.459396 m		
	019	038	3	0.819484 mm	0.592893 mm
0.560056 mm	0.079804 mm	0.476471 mm	6.884288 m		
	021	050	2	1.112502 mm	-0.434982 mm -
0.393012 mm	0.945512 mm	0.586265 mm	8.465590 m		
	Target63	045	6	1.493856 mm	-1.137628 mm -
0.075987 mm	-0.965212 mm	1.014535 mm	28.449971 m		
	Target75	051	2	1.290237 mm	1.246013 mm -
0.330071 mm	-0.056711 mm	0.636195 mm	9.934442 m		
	Target76	040	2	1.126008 mm	-1.072205 mm
0.234502 mm	0.251554 mm	1.234866 mm	16.080225 m		

**217\_etapa\_3065 - 6 Scanned Objects - Mean Distance: 1.157701 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3065	--	--	--	--
--	--	--	0.000000 m		
	019	038	3	0.716548 mm	-0.064900 mm -
0.460420 mm	-0.545199 mm	0.451579 mm	5.545009 m		
	017	048	4	1.002942 mm	-0.150423 mm -
0.895061 mm	-0.426769 mm	0.454770 mm	3.538667 m		
	018	049	4	1.666278 mm	0.604613 mm
0.878834 mm	1.280069 mm	0.426966 mm	12.403839 m		
	Target38	051	2	1.290237 mm	-1.246013 mm
0.330071 mm	0.056711 mm	0.516086 mm	9.950475 m		
	Target74	050	2	1.112502 mm	0.434982 mm
0.393012 mm	-0.945512 mm	0.445715 mm	3.639240 m		

**217\_etapa\_3064 - 5 Scanned Objects - Mean Distance: 1.169624 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
Y	Z	Error	to Scanner		
--	217_etapa_3064	--	--	--	--
--	--	--	0.000000 m		
	017	048	4	1.302504 mm	-0.483510 mm
1.002767 mm	0.676161 mm	0.392208 mm	10.772893 m		
	018	049	4	1.262189 mm	-0.354444 mm
1.098724 mm	0.510192 mm	0.376654 mm	7.618312 m		
	Target64	044	5	1.045663 mm	1.003269 mm
0.105450 mm	0.275215 mm	0.737966 mm	30.355619 m		
	Target65	045	6	1.068141 mm	-0.277421 mm
0.151846 mm	-1.020248 mm	0.443741 mm	14.600157 m		

**217\_etapa\_3063 - 9 Scanned Objects - Mean Distance: 1.182185 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
Y	Z	Error	to Scanner		
--	217_etapa_3063	--	--	--	--
--	--	--	0.000000 m		
	018	049	4	1.337819 mm	-0.290901 mm
0.429781 mm	-1.233055 mm	0.500877 mm	13.560781 m		
	017	048	4	1.580273 mm	-0.577586 mm
0.447805 mm	-1.401116 mm	0.617571 mm	19.258622 m		
	016	043	4	0.714728 mm	0.664414 mm
0.263077 mm	0.013459 mm	0.566146 mm	15.934576 m		
	014	041	4	0.923450 mm	0.702203 mm
0.136930 mm	-0.583885 mm	0.427092 mm	9.490154 m		
	Target66	044	5	2.098168 mm	0.201811 mm
0.274541 mm	2.070316 mm	0.798600 mm	21.865495 m		
	Target67	045	6	0.340302 mm	-0.086529 mm
0.027806 mm	-0.327941 mm	0.535156 mm	6.908511 m		
	Target79	047	2	0.501672 mm	0.087733 mm
0.470938 mm	-0.148981 mm	0.869140 mm	12.792218 m		
	Target80	046	3	1.961066 mm	-0.885956 mm
0.756596 mm	1.577474 mm	2.857757 mm	17.802850 m		

**217\_etapa\_3062 - 9 Scanned Objects - Mean Distance: 0.840234 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance	Error	X
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>			
217_etapa_3062	--	--	--	--	--
--	--	--	0.000000 m		
0.554385 mm	014	041	4	0.898582 mm	-0.617931 mm
0.399781 mm	-0.343901 mm	0.456817 mm	3.964396 m		
0.722892 mm	015	042	2	0.795414 mm	0.464381 mm
0.470938 mm	-0.507158 mm	0.386139 mm	8.990869 m		
0.191769 mm	016	043	4	1.005273 mm	-0.647966 mm
0.817547 mm	0.261041 mm	0.360010 mm	8.682898 m		
0.299112 mm	Target48	047	2	0.501672 mm	-0.087733 mm
0.191769 mm	0.148981 mm	0.607778 mm	10.010193 m		
0.817547 mm	Target68	044	5	0.822348 mm	0.664163 mm
0.299112 mm	-0.445387 mm	0.631082 mm	15.366919 m		
0.817547 mm	Target69	045	6	1.191184 mm	0.290953 mm
0.299112 mm	0.816016 mm	0.367462 mm	8.392685 m		
0.817547 mm	Target81	046	3	0.667162 mm	-0.252080 mm
0.299112 mm	-0.540457 mm	0.525697 mm	9.731100 m		
--	Target82	--	--	--	--
--	--	0.858232 mm	22.231128 m		

**217\_etapa\_3061 - 7 Scanned Objects - Mean Distance: 1.512406 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance	Error	X
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>			
217_etapa_3061	--	--	--	--	--
--	--	--	0.000000 m		
0.860588 mm	016	043	4	1.513326 mm	-0.198202 mm
0.694556 mm	-1.228926 mm	0.460224 mm	4.029454 m		
0.399781 mm	014	041	4	1.298686 mm	-1.097111 mm
1.055708 mm	-0.022904 mm	0.420007 mm	10.119267 m		
0.772770 mm	015	042	2	0.795414 mm	-0.464381 mm
1.053902 mm	0.507158 mm	0.555966 mm	19.964622 m		
0.860588 mm	Target52	046	3	1.866829 mm	1.138036 mm
0.694556 mm	-1.037017 mm	0.685422 mm	7.459719 m		
0.399781 mm	Target70	044	5	1.293021 mm	-0.821983 mm
1.055708 mm	-0.631723 mm	0.492890 mm	6.859796 m		
0.860588 mm	Target71	045	6	2.307158 mm	1.134303 mm
1.053902 mm	1.710445 mm	0.522594 mm	16.067509 m		

**217\_etapa\_3060 - 6 Scanned Objects - Mean Distance: 1.122017 mm**

Delta	Object Delta	Corresponding Fitting	Scan Distance	Residual	Delta
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
217_etapa_3060	--	--	--	--	--
--	--	--	0.000000 m		
	014	041	4	1.416489 mm	1.012840 mm
0.277101 mm	0.950690 mm	0.913774 mm	19.834721 m		
	016	043	4	1.050992 mm	0.181754 mm
0.400773 mm	0.954426 mm	0.447592 mm	13.367888 m		
	Target55	--	--	--	--
--	--	0.799201 mm	5.361309 m		
	Target72	045	6	0.363466 mm	0.076321 mm
0.284408 mm	-0.213060 mm	0.887482 mm	25.370365 m		-
	Target73	044	5	1.657121 mm	-1.047260 mm
0.201010 mm	-1.268421 mm	0.372737 mm	10.071119 m		-

## Report by target

User Name: gedstudent

Date: Sun Jan 15 09:39:07 2023

Project Name: 217\_etapa2\_2

Length Measurement Units: Meters

Coordinate System: X, Y, Z

12 STATION(S) - Mean Distance: 1.023277 mm Max Distance: 1.512406 mm  
 21 TARGET(S) - Mean Distance: 0.994982 mm Max Distance: 1.498352 mm

**038** - 3 Scanned Objects - Mean Distance: 0.748958 mm - Mean Position  
 X=49.855702 Y=-7.718645 Z=156.966831

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
019	217_etapa_3067	0.710843 mm	-0.527994 mm	-0.099636 mm
0.465395 mm	0.395052 mm	11.789935 m		
019	217_etapa_3065	0.716548 mm	-0.064900 mm	-0.460420 mm -
0.545199 mm	0.451579 mm	5.545009 m		
019	217_etapa_3066	0.819484 mm	0.592893 mm	0.560056 mm
0.079804 mm	0.476471 mm	6.884288 m		

**039** - 3 Scanned Objects - Mean Distance: 0.289858 mm - Mean Position  
 X=57.273804 Y=-6.415626 Z=155.572804

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
020	217_etapa_3067	0.434787 mm	-0.186809 mm	0.255971 mm -
0.297693 mm	0.388059 mm	6.263169 m		
020	217_etapa_3066	0.434787 mm	0.186809 mm	-0.255971 mm
0.297693 mm	0.377112 mm	11.797660 m		
Target23	217_etapa_3068	0.000000 mm	0.000000 mm	0.000000 mm
0.000000 mm	0.420306 mm	11.134745 m		

**040** - 2 Scanned Objects - Mean Distance: 1.126008 mm - Mean Position  
 X=63.745826 Y=-7.759600 Z=157.195454

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target29	217_etapa_3067	1.126008 mm	1.072205 mm	-0.234502 mm -
0.251554 mm	0.662065 mm	3.685877 m		
Target76	217_etapa_3066	1.126008 mm	-1.072205 mm	0.234502 mm
0.251554 mm	1.234866 mm	16.080225 m		

**041 - 4 Scanned Objects - Mean Distance: 1.134301 mm - Mean Position**  
X=17.632687 Y=-8.949175 Z=156.597496

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
014	217_etapa_3061	1.298686 mm	-1.097111 mm	-0.694556 mm -
0.022904 mm	0.420007 mm	10.119267 m		
014	217_etapa_3062	0.898582 mm	-0.617931 mm	0.554385 mm -
0.343901 mm	0.456817 mm	3.964396 m		
014	217_etapa_3063	0.923450 mm	0.702203 mm	-0.136930 mm -
0.583885 mm	0.427092 mm	9.490154 m		
014	217_etapa_3060	1.416489 mm	1.012840 mm	0.277101 mm
0.950690 mm	0.913774 mm	19.834721 m		

**042 - 2 Scanned Objects - Mean Distance: 0.795414 mm - Mean Position**  
X=29.115570 Y=-5.483939 Z=156.125687

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
015	217_etapa_3061	0.795414 mm	-0.464381 mm	-0.399781 mm
0.507158 mm	0.555966 mm	19.964622 m		
015	217_etapa_3062	0.795414 mm	0.464381 mm	0.399781 mm -
0.507158 mm	0.386139 mm	8.990869 m		

**043 - 4 Scanned Objects - Mean Distance: 1.071080 mm - Mean Position**  
X=11.677821 Y=-6.334448 Z=156.652162

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
016	217_etapa_3061	1.513326 mm	-0.198202 mm	-0.860588 mm -
1.228926 mm	0.460224 mm	4.029454 m		
016	217_etapa_3062	1.005273 mm	-0.647966 mm	0.722892 mm
0.261041 mm	0.360010 mm	8.682898 m		
016	217_etapa_3063	0.714728 mm	0.664414 mm	-0.263077 mm
0.013459 mm	0.566146 mm	15.934576 m		
016	217_etapa_3060	1.050992 mm	0.181754 mm	0.400773 mm
0.954426 mm	0.447592 mm	13.367888 m		

**044 - 5 Scanned Objects - Mean Distance: 1.383264 mm - Mean Position**  
X=5.145942 Y=-8.643893 Z=158.600283

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target70	217_etapa_3061	1.293021 mm	-0.821983 mm	0.772770 mm -
0.631723 mm	0.492890 mm	6.859796 m		
Target68	217_etapa_3062	0.822348 mm	0.664163 mm	-0.191769 mm -
0.445387 mm	0.631082 mm	15.366919 m		
Target66	217_etapa_3063	2.098168 mm	0.201811 mm	-0.274541 mm



2.070316 mm 0.798600 mm 21.865495 m  
 Target64 217\_etapa\_3064 1.045663 mm 1.003269 mm -0.105450 mm  
 0.275215 mm 0.737966 mm 30.355619 m  
 Target73 217\_etapa\_3060 1.657121 mm -1.047260 mm -0.201010 mm -  
 1.268421 mm 0.372737 mm 10.071119 m

**045 - 6 Scanned Objects - Mean Distance: 1.127351 mm - Mean Position**  
 X=20.734095 Y=-14.607636 Z=157.580142

Object	Corresponding	Residual	Delta	Delta
Delta	Fitting	Distance		
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target71	217_etapa_3061	2.307158 mm	1.134303 mm	1.053902 mm
1.710445 mm	0.522594 mm	16.067509 m		
Target69	217_etapa_3062	1.191184 mm	0.290953 mm	-0.817547 mm
0.816016 mm	0.367462 mm	8.392685 m		
Target67	217_etapa_3063	0.340302 mm	-0.086529 mm	-0.027806 mm -
0.327941 mm	0.535156 mm	6.908511 m		
Target65	217_etapa_3064	1.068141 mm	-0.277421 mm	0.151846 mm -
1.020248 mm	0.443741 mm	14.600157 m		
Target63	217_etapa_3066	1.493856 mm	-1.137628 mm	-0.075987 mm -
0.965212 mm	1.014535 mm	28.449971 m		
Target72	217_etapa_3060	0.363466 mm	0.076321 mm	-0.284408 mm -
0.213060 mm	0.887482 mm	25.370365 m		

**046 - 3 Scanned Objects - Mean Distance: 1.498352 mm - Mean Position**  
 X=14.810849 Y=1.793213 Z=158.212434

Object	Corresponding	Residual	Delta	Delta
Delta	Fitting	Distance		
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target52	217_etapa_3061	1.866829 mm	1.138036 mm	-1.055708 mm -
1.037017 mm	0.685422 mm	7.459719 m		
Target81	217_etapa_3062	0.667162 mm	-0.252080 mm	0.299112 mm -
0.540457 mm	0.525697 mm	9.731100 m		
Target80	217_etapa_3063	1.961066 mm	-0.885956 mm	0.756596 mm
1.577474 mm	2.857757 mm	17.802850 m		

**047 - 2 Scanned Objects - Mean Distance: 0.501672 mm - Mean Position**  
 X=26.721236 Y=1.444495 Z=157.941070

Object	Corresponding	Residual	Delta	Delta
Delta	Fitting	Distance		
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target48	217_etapa_3062	0.501672 mm	-0.087733 mm	-0.470938 mm
0.148981 mm	0.607778 mm	10.010193 m		
Target79	217_etapa_3063	0.501672 mm	0.087733 mm	0.470938 mm -
0.148981 mm	0.869140 mm	12.792218 m		

**048 - 4 Scanned Objects - Mean Distance: 1.397892 mm - Mean Position**  
 X=45.842987 Y=-14.077177 Z=156.332097

Object	Corresponding	Residual	Delta	Delta
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Delta	Fitting	Distance				
Name	Station	Error	X	Y		
Z	Error	to Scanner				
017	217_etapa_3063	1.580273 mm	-0.577586 mm	-0.447805 mm	-	
1.401116 mm	0.617571 mm	19.258622 m				
017	217_etapa_3064	1.302504 mm	-0.483510 mm	1.002767 mm		
0.676161 mm	0.392208 mm	10.772893 m				
017	217_etapa_3065	1.002942 mm	-0.150423 mm	-0.895061 mm	-	
0.426769 mm	0.454770 mm	3.538667 m				
017	217_etapa_3066	1.705847 mm	1.211520 mm	0.340099 mm		
1.151724 mm	0.610379 mm	4.223798 m				

**049 - 4 Scanned Objects - Mean Distance: 1.215776 mm - Mean Position**  
X=37.208580 Y=-19.995238 Z=156.543198

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
018	217_etapa_3063	1.337819 mm	-0.290901 mm	0.429781 mm	-
1.233055 mm	0.500877 mm	13.560781 m			
018	217_etapa_3064	1.262189 mm	-0.354444 mm	-1.098724 mm	
0.510192 mm	0.376654 mm	7.618312 m			
018	217_etapa_3065	1.666278 mm	0.604613 mm	0.878834 mm	
1.280069 mm	0.426966 mm	12.403839 m			
018	217_etapa_3066	0.596818 mm	0.040732 mm	-0.209891 mm	-
0.557206 mm	0.556639 mm	13.459396 m			

**050 - 2 Scanned Objects - Mean Distance: 1.112502 mm - Mean Position**  
X=44.726491 Y=-7.302595 Z=157.065122

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
Target74	217_etapa_3065	1.112502 mm	0.434982 mm	0.393012 mm	-
0.945512 mm	0.445715 mm	3.639240 m			
021	217_etapa_3066	1.112502 mm	-0.434982 mm	-0.393012 mm	
0.945512 mm	0.586265 mm	8.465590 m			

**051 - 2 Scanned Objects - Mean Distance: 1.290237 mm - Mean Position**  
X=52.855185 Y=-5.053557 Z=159.021290

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
Target38	217_etapa_3065	1.290237 mm	-1.246013 mm	0.330071 mm	
0.056711 mm	0.516086 mm	9.950475 m			
Target75	217_etapa_3066	1.290237 mm	1.246013 mm	-0.330071 mm	-
0.056711 mm	0.636195 mm	9.934442 m			

**052 - 4 Scanned Objects - Mean Distance: 0.611380 mm - Mean Position**  
X=77.234248 Y=-15.481795 Z=155.319839

Object	Corresponding	Residual	Delta	Delta
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Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
013	217_etapa_3068	0.498499 mm	0.239036 mm	-0.097944 mm	
0.426345 mm	0.469424 mm	11.165985 m			
013	217_etapa_3069	0.846565 mm	-0.827367 mm	-0.113189 mm	-
0.139012 mm	0.429285 mm	4.458793 m			
013	217_etapa_3070	0.405076 mm	-0.104577 mm	0.190152 mm	-
0.342042 mm	0.491929 mm	2.893326 m			
013	217_etapa_3071	0.695381 mm	0.692908 mm	0.020981 mm	
0.054709 mm	0.481671 mm	11.824175 m			

**053 - 2 Scanned Objects - Mean Distance: 0.582983 mm - Mean Position**  
X=63.692119 Y=-8.059582 Z=155.279515

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
022	217_etapa_3068	0.582983 mm	-0.037971 mm	0.126394 mm	-
0.567849 mm	0.446492 mm	4.535877 m			
022	217_etapa_3069	0.582983 mm	0.037971 mm	-0.126394 mm	
0.567849 mm	0.381454 mm	11.289204 m			

**054 - 4 Scanned Objects - Mean Distance: 0.978756 mm - Mean Position**  
X=73.095275 Y=-11.851123 Z=155.236810

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
012	217_etapa_3068	1.152442 mm	0.425367 mm	-0.818747 mm	-
0.690535 mm	0.491466 mm	5.745653 m			
012	217_etapa_3069	0.977467 mm	0.359062 mm	0.557209 mm	-
0.718356 mm	0.512749 mm	1.760637 m			
012	217_etapa_3070	1.010916 mm	-0.453153 mm	0.501648 mm	
0.751634 mm	0.578344 mm	8.075490 m			
012	217_etapa_3071	0.774199 mm	-0.331276 mm	-0.240109 mm	
0.657258 mm	0.859570 mm	16.823422 m			

**055 - 4 Scanned Objects - Mean Distance: 1.224597 mm - Mean Position**  
X=85.597829 Y=-20.699124 Z=155.468249

Object	Corresponding	Residual	Delta	Delta	
Delta	Fitting	Distance			
Name	Station	Error	X	Y	
Z	Error	to Scanner			
Target62	217_etapa_3068	0.957335 mm	-0.728901 mm	0.435469 mm	
0.442222 mm	0.590892 mm	21.008580 m			
Target59	217_etapa_3069	1.356560 mm	0.603975 mm	0.131234 mm	
1.207579 mm	0.629953 mm	14.178385 m			
Target61	217_etapa_3070	1.161525 mm	0.867937 mm	-0.635475 mm	-
0.438174 mm	0.337517 mm	7.357015 m			
Target57	217_etapa_3071	1.422967 mm	-0.743012 mm	0.068772 mm	-
1.211626 mm	0.424815 mm	4.336170 m			

**056 - 2 Scanned Objects - Mean Distance: 0.878471 mm - Mean Position**  
X=74.568802 Y=-17.225468 Z=156.410652

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target26	217_etapa_3068	0.878471 mm	0.166966 mm	0.836051 mm
0.211784 mm	1.107509 mm	10.409908 m		
Target77	217_etapa_3069	0.878471 mm	-0.166966 mm	-0.836051 mm
0.211784 mm	1.535964 mm	4.467530 m		

**057 - 2 Scanned Objects - Mean Distance: 0.633146 mm - Mean Position**  
X=78.189348 Y=-11.383305 Z=156.667238

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target78	217_etapa_3069	0.633146 mm	0.620416 mm	0.112650 mm
0.057165 mm	0.473093 mm	4.566258 m		
Target21	217_etapa_3070	0.633146 mm	-0.620416 mm	-0.112650 mm
0.057165 mm	0.637186 mm	4.971132 m		

**058 - 2 Scanned Objects - Mean Distance: 1.292622 mm - Mean Position**  
X=69.533007 Y=-21.414811 Z=156.811264

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target60	217_etapa_3069	1.292622 mm	-0.762760 mm	-0.300713 mm
0.999320 mm	0.416252 mm	9.630510 m		
Target58	217_etapa_3071	1.292622 mm	0.762760 mm	0.300713 mm
0.999320 mm	0.565981 mm	19.679349 m		

## **Protokol o registraci etapy 3**

# Registration Report (Target-Based)

## Report by station

User Name: gedstudent

Date: Sun Jan 15 10:54:33 2023

Project Name: 217etapa\_3

Length Measurement Units: Meters

Coordinate System: X, Y, Z

14 STATION(S) - Mean Distance: 1.601108 mm Max Distance: 3.144463 mm  
 22 TARGET(S) - Mean Distance: 1.749638 mm Max Distance: 4.919256 mm

**217\_etapa\_3085 - 7 Scanned Objects - Mean Distance: 1.315282 mm**

Delta	Object Name	Corresponding Delta	Fitting Target	Scan Distance Per Target to Scanner	Residual Error	Delta X
Y	Z	Error				
--	217_etapa_3085	--	--	--	--	--
--	--	--	0.000000	m		
	013		037	3	0.568686 mm	0.400937 mm -
0.334115 mm	-0.225879 mm	0.449226 mm	12.744538 m			
	011		035	5	1.024703 mm	0.103417 mm
0.769936 mm	-0.668221 mm	0.438427 mm	3.823928 m			
	012		034	5	1.730624 mm	0.555160 mm -
0.018840 mm	1.639055 mm	0.631771 mm	19.856260 m			
	Target18		046	2	1.693940 mm	-0.570798 mm
0.842538 mm	-1.354160 mm	0.795466 mm	3.139156 m			
	015		038	3	0.874551 mm	0.766674 mm
0.380107 mm	-0.180469 mm	0.875350 mm	21.010007 m			
	014		036	4	1.999190 mm	-1.413531 mm -
1.394634 mm	-0.231702 mm	0.336171 mm	7.881250 m			

**217\_etapa\_3084 - 8 Scanned Objects - Mean Distance: 1.000168 mm**

Delta	Object Name	Corresponding Delta	Fitting Target	Scan Distance Per Target to Scanner	Residual Error	Delta X
Y	Z	Error				
--	217_etapa_3084	--	--	--	--	--
--	--	--	0.000000	m		
	013		037	3	0.944890 mm	-0.784667 mm -
0.430649 mm	-0.302749 mm	0.447696 mm	3.442407 m			
	012		034	5	0.382110 mm	0.101158 mm
0.052904 mm	-0.364659 mm	0.378033 mm	11.144645 m			
	011		035	5	1.175378 mm	0.742955 mm
0.790279 mm	-0.452761 mm	0.365908 mm	5.904421 m			
	014		036	4	0.628014 mm	-0.226783 mm -
0.296925 mm	-0.504784 mm	0.409479 mm	4.779090 m			
	015		038	3	1.194331 mm	-0.218937 mm -
0.335048 mm	1.125271 mm	0.382732 mm	12.559548 m			
	Target98		045	2	0.982515 mm	-0.722109 mm

**217 etapa 3083 - 7 Scanned Objects - Mean Distance: 1.053503 mm**

217 etapa 3082 - 6 Scanned Objects - Mean Distance: 1.898212 mm

217 etapa 3081 - 4 Scanned Objects - Mean Distance: 1.229754 mm

39

0.000000 mm 0.000000 mm 0.349545 mm 9.358239 m

### 217\_etapa\_3080 - 6 Scanned Objects - Mean Distance: 1.147279 mm

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance	Error	X
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>			
217_etapa_3080	--	--	--	--	--
--	--	--	0.000000 m	--	--
024	026	2	1.848173 mm	-0.315623 mm	-
1.046970 mm	-1.489959 mm	0.488185 mm	3.609478 m		
022	025	5	1.484030 mm	0.933866 mm	
1.045984 mm	0.485958 mm	0.744605 mm	16.240522 m		
Target36	--	--	--	--	--
--	--	0.693186 mm	3.609142 m		
Target94	043	3	0.378639 mm	-0.087928 mm	-
0.297822 mm	0.216653 mm	0.933521 mm	16.956301 m		
Target95	033	5	0.878275 mm	-0.754860 mm	-
0.448503 mm	-0.019966 mm	0.478225 mm	7.826301 m		

### 217\_etapa\_3079 - 6 Scanned Objects - Mean Distance: 0.909710 mm

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance	Error	X
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>			
217_etapa_3079	--	--	--	--	--
--	--	--	0.000000 m	--	--
023	033	5	0.801433 mm	0.246741 mm	-
0.711365 mm	0.274542 mm	0.381883 mm	9.005310 m		
022	025	5	1.092693 mm	0.052859 mm	
0.479106 mm	-0.980633 mm	0.415643 mm	5.152407 m		
024	026	2	1.848173 mm	0.315623 mm	
1.046970 mm	1.489959 mm	0.443718 mm	8.822371 m		
Target40	043	3	0.651911 mm	-0.589453 mm	-
0.151595 mm	0.233564 mm	0.765277 mm	10.768828 m		
Target93	042	4	0.154340 mm	-0.090221 mm	-
0.119465 mm	-0.037539 mm	0.666868 mm	10.856506 m		

### 217\_etapa\_3078 - 4 Scanned Objects - Mean Distance: 0.828300 mm

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance	Error	X
<u>Y</u>	<u>Name</u>	<u>Target</u>	<u>Per Target</u>	<u>Error</u>	<u>X</u>
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>			
217_etapa_3078	--	--	--	--	--
--	--	--	0.000000 m	--	--
Target42	033	5	0.521718 mm	0.166545 mm	
0.316756 mm	0.379629 mm	0.490065 mm	9.541654 m		
Target43	042	4	1.033925 mm	-0.716217 mm	-
0.733008 mm	-0.136873 mm	0.476541 mm	9.924374 m		
Target92	043	3	0.929255 mm	0.677381 mm	
0.449417 mm	-0.450217 mm	0.438619 mm	3.718175 m		



**217\_etapa\_3077 - 8 Scanned Objects - Mean Distance: 2.964014 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3077	--	--	--	--
--	--	--	0.000000 m		
	017	028	6	2.828551 mm	-2.055234 mm
0.355662 mm	-1.910554 mm	0.539996 mm	14.130372 m		
	023	033	5	1.108931 mm	0.341574 mm
0.843112 mm	-0.634205 mm	0.593105 mm	15.866277 m		
	021	032	3	1.812283 mm	-1.008577 mm
1.331960 mm	-0.702157 mm	0.439441 mm	5.109159 m		
	022	025	5	1.889288 mm	-1.289803 mm
0.506389 mm	1.284284 mm	0.483771 mm	6.139691 m		
	019	030	6	3.002458 mm	-2.076279 mm
1.425559 mm	1.634502 mm	0.963772 mm	23.179242 m		
	Target90	042	4	2.363049 mm	-1.072730 mm
1.291024 mm	-1.663282 mm	0.753803 mm	16.316980 m		
	Target91	040	5	7.743541 mm	7.369374 mm
1.897620 mm	1.433103 mm	1.128073 mm	21.647152 m		

**217\_etapa\_3076 - 8 Scanned Objects - Mean Distance: 1.567740 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3076	--	--	--	--
--	--	--	0.000000 m		
	021	032	3	0.951232 mm	0.521934 mm
0.509591 mm	-0.610527 mm	0.444756 mm	5.019865 m		
	016	027	5	1.885648 mm	-1.140759 mm
1.067825 mm	-1.055503 mm	0.758797 mm	17.293815 m		
	022	025	5	1.012787 mm	0.335379 mm
0.133201 mm	-0.946316 mm	0.410538 mm	10.375297 m		
	017	028	6	1.103908 mm	-0.209099 mm
0.936242 mm	0.546208 mm	0.397707 mm	9.543106 m		
	019	030	6	1.612508 mm	-0.274864 mm
0.209410 mm	1.575049 mm	0.534100 mm	18.541253 m		
	Target88	040	5	1.743379 mm	-0.430359 mm
0.373914 mm	-1.647529 mm	0.898406 mm	16.344484 m		
	Target89	042	4	2.664718 mm	1.879168 mm
0.438551 mm	1.837695 mm	2.451934 mm	17.959548 m		

**217\_etapa\_3075 - 9 Scanned Objects - Mean Distance: 2.242754 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3075	--	--	--	--
--	--	--	0.000000 m		
	021	032	3	2.313282 mm	0.486643 mm -
1.841552 mm	1.312684 mm	0.424616 mm	12.957914 m		
	017	028	6	1.679743 mm	0.701806 mm
1.470070 mm	-0.409758 mm	0.444142 mm	4.980534 m		
	016	027	5	1.515612 mm	-0.897365 mm
1.068239 mm	0.592185 mm	0.395755 mm	8.337513 m		
	022	025	5	1.905010 mm	-0.032302 mm -
1.898279 mm	0.156707 mm	0.869305 mm	19.378926 m		
	Target56	040	5	1.460621 mm	-0.105361 mm
1.288834 mm	0.679132 mm	0.673591 mm	8.442278 m		
	019	030	6	0.774779 mm	0.018566 mm
0.635645 mm	-0.442599 mm	0.422156 mm	11.308523 m		
	020	031	4	3.373730 mm	-0.552755 mm -
3.238412 mm	0.767597 mm	0.891392 mm	22.552828 m		
	Target87	041	2	4.919256 mm	0.801998 mm
1.775021 mm	-4.517209 mm	0.815400 mm	14.125403 m		

**217\_etapa\_3074 - 8 Scanned Objects - Mean Distance: 1.700388 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3074	--	--	--	--
--	--	--	0.000000 m		
	016	027	5	1.126136 mm	0.709998 mm
0.873187 mm	-0.040384 mm	0.508175 mm	3.166208 m		
	017	028	6	1.147221 mm	0.619886 mm
0.827026 mm	-0.497882 mm	0.388517 mm	10.692352 m		
	018	029	2	1.923253 mm	-1.771817 mm -
0.624536 mm	-0.411730 mm	0.661980 mm	8.220067 m		
	019	030	6	0.266679 mm	-0.154728 mm
0.197442 mm	-0.090519 mm	0.439174 mm	4.382264 m		
	020	031	4	1.736664 mm	-0.741379 mm -
0.617426 mm	-1.444003 mm	0.582586 mm	11.834725 m		
	Target85	040	5	0.783505 mm	0.354442 mm -
0.648785 mm	0.259476 mm	0.702973 mm	11.502121 m		
	Target86	041	2	4.919256 mm	-0.801998 mm -
1.775021 mm	4.517209 mm	3.081775 mm	24.660094 m		

**217\_etapa\_3073 - 8 Scanned Objects - Mean Distance: 3.144463 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3073	--	--	--	--
--	--	--	0.000000 m		
0.694424 mm	016	027	5	1.988464 mm	1.728372 mm -
0.696056 mm	017	028	6	3.459711 mm	1.281416 mm -
3.192263 mm	018	029	2	1.923253 mm	1.771817 mm
0.624536 mm	020	031	4	3.143122 mm	1.235918 mm
2.823295 mm	019	030	6	2.211300 mm	1.663195 mm
0.508324 mm	-1.365737 mm	039	2	2.007065 mm	0.571828 mm
1.307609 mm	1.411198 mm	040	5	7.278326 mm	-7.188097 mm
0.883657 mm	-0.724183 mm				

**217\_etapa\_3072 - 6 Scanned Objects - Mean Distance: 1.413940 mm**

Delta	Object	Corresponding	Scan	Residual	Delta
Delta	Delta	Fitting	Distance		
	Name	Target	Per Target	Error	X
<u>Y</u>	<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
--	217_etapa_3072	--	--	--	--
--	--	--	0.000000 m		
0.179177 mm	016	027	5	0.478853 mm	-0.400246 mm -
0.192354 mm	017	028	6	1.972063 mm	-0.338774 mm -
0.396737 mm	1.901805 mm	039	2	2.007065 mm	-0.571828 mm -
1.307609 mm	-1.411198 mm	031	4	1.035885 mm	0.058216 mm
1.032542 mm	0.059378 mm	030	6	1.575836 mm	0.824110 mm
0.293559 mm	-1.310696 mm				

## Report by target

User Name: gedstudent

Date: Sun Jan 15 10:54:33 2023

Project Name: 217etapa\_3

Length Measurement Units: Meters

Coordinate System: X, Y, Z

14 STATION(S) - Mean Distance: 1.601108 mm Max Distance: 3.144463 mm  
 22 TARGET(S) - Mean Distance: 1.749638 mm Max Distance: 4.919256 mm

**025 - 5 Scanned Objects - Mean Distance: 1.476761 mm - Mean Position**  
 X=50.455026 Y=-10.976881 Z=214.340780

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error to Scanner			
022	217_etapa_3080	1.484030 mm	0.933866 mm	1.045984 mm
0.485958 mm	0.744605 mm	16.240522 m		
022	217_etapa_3075	1.905010 mm	-0.032302 mm	-1.898279 mm
0.156707 mm	0.869305 mm	19.378926 m		
022	217_etapa_3076	1.012787 mm	0.335379 mm	-0.133201 mm -
0.946316 mm	0.410538 mm	10.375297 m		
022	217_etapa_3077	1.889288 mm	-1.289803 mm	0.506389 mm
1.284284 mm	0.483771 mm	6.139691 m		
022	217_etapa_3079	1.092693 mm	0.052859 mm	0.479106 mm -
0.980633 mm	0.415643 mm	5.152407 m		

**026 - 2 Scanned Objects - Mean Distance: 1.848173 mm - Mean Position**  
 X=61.977284 Y=-5.150840 Z=212.777862

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error to Scanner			
024	217_etapa_3080	1.848173 mm	-0.315623 mm	-1.046970 mm -
1.489959 mm	0.488185 mm	3.609478 m		
024	217_etapa_3079	1.848173 mm	0.315623 mm	1.046970 mm
1.489959 mm	0.443718 mm	8.822371 m		

**027 - 5 Scanned Objects - Mean Distance: 1.398943 mm - Mean Position**  
 X=23.970374 Y=-3.648994 Z=211.796989

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error to Scanner			
016	217_etapa_3073	1.988464 mm	1.728372 mm	-0.694424 mm
0.696056 mm	0.429377 mm	10.386881 m		
016	217_etapa_3074	1.126136 mm	0.709998 mm	0.873187 mm -

0.040384 mm	0.508175 mm	3.166208 m			
016	217_etapa_3075	1.515612 mm	-0.897365 mm	1.068239 mm	
0.592185 mm	0.395755 mm	8.337513 m			
016	217_etapa_3076	1.885648 mm	-1.140759 mm	-1.067825 mm	-
1.055503 mm	0.758797 mm	17.293815 m			
016	217_etapa_3072	0.478853 mm	-0.400246 mm	-0.179177 mm	-
0.192354 mm	0.921562 mm	24.305885 m			

**028 - 6 Scanned Objects - Mean Distance: 2.031866 mm - Mean Position**  
X=31.022092 Y=-9.379968 Z=211.266924

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta	
Name	Station	Error	X	Y	
Z	Error	to Scanner			
017	217_etapa_3073	3.459711 mm	1.281416 mm	-3.192263 mm	
0.370181 mm	0.622352 mm	18.553559 m			
017	217_etapa_3074	1.147221 mm	0.619886 mm	0.827026 mm	-
0.497882 mm	0.388517 mm	10.692352 m			
017	217_etapa_3075	1.679743 mm	0.701806 mm	1.470070 mm	-
0.409758 mm	0.444142 mm	4.980534 m			
017	217_etapa_3076	1.103908 mm	-0.209099 mm	0.936242 mm	
0.546208 mm	0.397707 mm	9.543106 m			
017	217_etapa_3077	2.828551 mm	-2.055234 mm	0.355662 mm	-
1.910554 mm	0.539996 mm	14.130372 m			
017	217_etapa_3072	1.972063 mm	-0.338774 mm	-0.396737 mm	
1.901805 mm	0.941832 mm	32.489936 m			

**029 - 2 Scanned Objects - Mean Distance: 1.923253 mm - Mean Position**  
X=17.558538 Y=2.214205 Z=213.466272

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta	
Name	Station	Error	X	Y	
Z	Error	to Scanner			
018	217_etapa_3073	1.923253 mm	1.771817 mm	0.624536 mm	
0.411730 mm	0.665161 mm	6.518110 m			
018	217_etapa_3074	1.923253 mm	-1.771817 mm	-0.624536 mm	-
0.411730 mm	0.661980 mm	8.220067 m			

**030 - 6 Scanned Objects - Mean Distance: 1.573927 mm - Mean Position**  
X=21.929989 Y=-9.374665 Z=213.336581

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta	
Name	Station	Error	X	Y	
Z	Error	to Scanner			
019	217_etapa_3073	2.211300 mm	1.663195 mm	0.508324 mm	-
1.365737 mm	0.420162 mm	10.394486 m			
019	217_etapa_3074	0.266679 mm	-0.154728 mm	0.197442 mm	-
0.090519 mm	0.439174 mm	4.382264 m			
019	217_etapa_3075	0.774779 mm	0.018566 mm	0.635645 mm	-
0.442599 mm	0.422156 mm	11.308523 m			
019	217_etapa_3076	1.612508 mm	-0.274864 mm	-0.209410 mm	
1.575049 mm	0.534100 mm	18.541253 m			
019	217_etapa_3077	3.002458 mm	-2.076279 mm	-1.425559 mm	
1.634502 mm	0.963772 mm	23.179242 m			
019	217_etapa_3072	1.575836 mm	0.824110 mm	0.293559 mm	-
1.310696 mm	0.849626 mm	23.862793 m			

**031 - 4 Scanned Objects - Mean Distance: 2.322350 mm - Mean Position**  
X=9.843455 Y=-7.338837 Z=213.858205

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta	
Name	Station	Error	X	Y	
Z	Error	to Scanner			
020	217_etapa_3073	3.143122 mm	1.235918 mm	2.823295 mm	
0.617029 mm	0.424349 mm	5.816670 m			
020	217_etapa_3074	1.736664 mm	-0.741379 mm	-0.617426 mm	-
1.444003 mm	0.582586 mm	11.834725 m			
020	217_etapa_3075	3.373730 mm	-0.552755 mm	-3.238412 mm	
0.767597 mm	0.891392 mm	22.552828 m			
020	217_etapa_3072	1.035885 mm	0.058216 mm	1.032542 mm	
0.059378 mm	0.413298 mm	12.303517 m			

**032 - 3 Scanned Objects - Mean Distance: 1.692266 mm - Mean Position**  
X=44.998614 Y=-6.738001 Z=212.253164

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta	
Name	Station	Error	X	Y	
Z	Error	to Scanner			
021	217_etapa_3075	2.313282 mm	0.486643 mm	-1.841552 mm	
1.312684 mm	0.424616 mm	12.957914 m			
021	217_etapa_3076	0.951232 mm	0.521934 mm	0.509591 mm	-
0.610527 mm	0.444756 mm	5.019865 m			
021	217_etapa_3077	1.812283 mm	-1.008577 mm	1.331960 mm	-
0.702157 mm	0.439441 mm	5.109159 m			

**033 - 5 Scanned Objects - Mean Distance: 0.662071 mm - Mean Position**  
X=57.589708 Y=-2.357561 Z=213.114460

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
023	217_etapa_3077	1.108931 mm	0.341574 mm	0.843112 mm -
0.634205 mm	0.593105 mm	15.866277 m		
023	217_etapa_3079	0.801433 mm	0.246741 mm	-0.711365 mm
0.274542 mm	0.381883 mm	9.005310 m		
Target42	217_etapa_3078	0.521718 mm	0.166545 mm	0.316756 mm
0.379629 mm	0.490065 mm	9.541654 m		
Target95	217_etapa_3080	0.878275 mm	-0.754860 mm	-0.448503 mm -
0.019966 mm	0.478225 mm	7.826301 m		
Target33	217_etapa_3081	0.000000 mm	0.000000 mm	0.000000 mm
0.000000 mm	0.349545 mm	9.358239 m		

**034 - 5 Scanned Objects - Mean Distance: 1.094419 mm - Mean Position**  
X=76.476733 Y=-4.178470 Z=210.494316

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
012	217_etapa_3081	1.844632 mm	-0.272687 mm	0.063475 mm -
1.823260 mm	0.377021 mm	9.959677 m		
012	217_etapa_3082	1.032675 mm	-0.668066 mm	-0.479247 mm
0.624842 mm	0.530311 mm	4.721079 m		
012	217_etapa_3083	0.482056 mm	0.284435 mm	0.381709 mm -
0.075978 mm	0.573747 mm	3.462811 m		
012	217_etapa_3084	0.382110 mm	0.101158 mm	0.052904 mm -
0.364659 mm	0.378033 mm	11.144645 m		
012	217_etapa_3085	1.730624 mm	0.555160 mm	-0.018840 mm
1.639055 mm	0.631771 mm	19.856260 m		

**035 - 5 Scanned Objects - Mean Distance: 1.724935 mm - Mean Position**  
X=92.204608 Y=-7.839521 Z=209.746551

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
011	217_etapa_3081	1.844632 mm	0.272687 mm	-0.063475 mm
1.823260 mm	0.734261 mm	26.115383 m		
011	217_etapa_3082	3.030394 mm	-0.828329 mm	-1.969437 mm -
2.149065 mm	0.727743 mm	20.866913 m		
011	217_etapa_3083	1.549567 mm	-0.290730 mm	0.472697 mm
1.446786 mm	0.438482 mm	13.340972 m		
011	217_etapa_3084	1.175378 mm	0.742955 mm	0.790279 mm -
0.452761 mm	0.365908 mm	5.904421 m		
011	217_etapa_3085	1.024703 mm	0.103417 mm	0.769936 mm -
0.668221 mm	0.438427 mm	3.823928 m		

**036 - 4 Scanned Objects - Mean Distance: 1.394246 mm - Mean Position**  
X=89.311055 Y=-12.867290 Z=210.645577

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
014	217_etapa_3082	2.579074 mm	1.634858 mm	1.660130 mm
1.105816 mm	0.946448 mm	20.040137 m		
014	217_etapa_3083	0.370705 mm	0.005456 mm	0.031428 mm -
0.369330 mm	0.466433 mm	12.354149 m		
014	217_etapa_3084	0.628014 mm	-0.226783 mm	-0.296925 mm -
0.504784 mm	0.409479 mm	4.779090 m		
014	217_etapa_3085	1.999190 mm	-1.413531 mm	-1.394634 mm -
0.231702 mm	0.336171 mm	7.881250 m		

**037 - 3 Scanned Objects - Mean Distance: 0.839780 mm - Mean Position**  
X=83.120202 Y=-8.733715 Z=210.397918

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
013	217_etapa_3082	1.005763 mm	0.383730 mm	0.764763 mm
0.528628 mm	0.437371 mm	12.630311 m		
013	217_etapa_3084	0.944890 mm	-0.784667 mm	-0.430649 mm -
0.302749 mm	0.447696 mm	3.442407 m		
013	217_etapa_3085	0.568686 mm	0.400937 mm	-0.334115 mm -
0.225879 mm	0.449226 mm	12.744538 m		

**038 - 3 Scanned Objects - Mean Distance: 1.053968 mm - Mean Position**  
X=76.441970 Y=-16.360830 Z=212.208864

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
015	217_etapa_3083	1.093022 mm	-0.547737 mm	-0.045059 mm -
0.944802 mm	0.357285 mm	10.801765 m		
015	217_etapa_3084	1.194331 mm	-0.218937 mm	-0.335048 mm
1.125271 mm	0.382732 mm	12.559548 m		
015	217_etapa_3085	0.874551 mm	0.766674 mm	0.380107 mm -
0.180469 mm	0.875350 mm	21.010007 m		

**039 - 2 Scanned Objects - Mean Distance: 2.007065 mm - Mean Position**  
X=3.911855 Y=3.999596 Z=213.964161

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target83	217_etapa_3073	2.007065 mm	0.571828 mm	1.307609 mm
1.411198 mm	0.620118 mm	12.074507 m		
Target65	217_etapa_3072	2.007065 mm	-0.571828 mm	-1.307609 mm -
1.411198 mm	0.585901 mm	5.597190 m		



**040 - 5 Scanned Objects - Mean Distance: 3.801875 mm - Mean Position**  
X=29.426458 Y=3.230970 Z=213.193505

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target85	217_etapa_3074	0.783505 mm	0.354442 mm	-0.648785 mm
0.259476 mm	0.702973 mm	11.502121 m		
Target84	217_etapa_3073	7.278326 mm	-7.188097 mm	0.883657 mm -
0.724183 mm	0.621366 mm	16.921369 m		
Target56	217_etapa_3075	1.460621 mm	-0.105361 mm	1.288834 mm
0.679132 mm	0.673591 mm	8.442278 m		
Target88	217_etapa_3076	1.743379 mm	-0.430359 mm	0.373914 mm -
1.647529 mm	0.898406 mm	16.344484 m		
Target91	217_etapa_3077	7.743541 mm	7.369374 mm	-1.897620 mm
1.433103 mm	1.128073 mm	21.647152 m		

**041 - 2 Scanned Objects - Mean Distance: 4.919256 mm - Mean Position**  
X=45.610921 Y=-0.276479 Z=212.331998

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target87	217_etapa_3075	4.919256 mm	0.801998 mm	1.775021 mm -
4.517209 mm	0.815400 mm	14.125403 m		
Target86	217_etapa_3074	4.919256 mm	-0.801998 mm	-1.775021 mm
4.517209 mm	3.081775 mm	24.660094 m		

**042 - 4 Scanned Objects - Mean Distance: 1.554008 mm - Mean Position**  
X=56.127313 Y=-0.220359 Z=214.276982

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
Z	Error	to Scanner		
Target90	217_etapa_3077	2.363049 mm	-1.072730 mm	1.291024 mm -
1.663282 mm	0.753803 mm	16.316980 m		
Target89	217_etapa_3076	2.664718 mm	1.879168 mm	-0.438551 mm
1.837695 mm	2.451934 mm	17.959548 m		
Target43	217_etapa_3078	1.033925 mm	-0.716217 mm	-0.733008 mm -
0.136873 mm	0.476541 mm	9.924374 m		
Target93	217_etapa_3079	0.154340 mm	-0.090221 mm	-0.119465 mm -
0.037539 mm	0.666868 mm	10.856506 m		

**043 - 3 Scanned Objects - Mean Distance: 0.653268 mm - Mean Position**  
X=48.310672 Y=-3.390889 Z=212.319974

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
Target40	217_etapa_3079	0.651911 mm	-0.589453 mm	-0.151595 mm
0.233564 mm	0.765277 mm	10.768828 m		
Target92	217_etapa_3078	0.929255 mm	0.677381 mm	0.449417 mm -
0.450217 mm	0.438619 mm	3.718175 m		
Target94	217_etapa_3080	0.378639 mm	-0.087928 mm	-0.297822 mm
0.216653 mm	0.933521 mm	16.956301 m		

**044 - 2 Scanned Objects - Mean Distance: 1.843154 mm - Mean Position**  
X=79.100603 Y=-9.814114 Z=211.672542

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
Target96	217_etapa_3083	1.843154 mm	0.104322 mm	-1.654305 mm -
0.805984 mm	1.384482 mm	3.903289 m		
Target30	217_etapa_3082	1.843154 mm	-0.104322 mm	1.654305 mm
0.805984 mm	1.092594 mm	10.014428 m		

**045 - 2 Scanned Objects - Mean Distance: 0.982515 mm - Mean Position**  
X=82.022745 Y=-3.594012 Z=211.926251

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
Target98	217_etapa_3084	0.982515 mm	-0.722109 mm	0.476977 mm
0.465173 mm	0.553398 mm	7.109586 m		
Target25	217_etapa_3083	0.982515 mm	0.722109 mm	-0.476977 mm -
0.465173 mm	0.652271 mm	3.683468 m		

**046 - 2 Scanned Objects - Mean Distance: 1.693940 mm - Mean Position**  
X=95.988446 Y=-5.400302 Z=211.222601

Object Delta	Corresponding Fitting	Residual Distance	Delta	Delta
Name	Station	Error	X	Y
<u>Z</u>	<u>Error</u>	<u>to Scanner</u>		
Target18	217_etapa_3085	1.693940 mm	-0.570798 mm	0.842538 mm -
1.354160 mm	0.795466 mm	3.139156 m		
Target99	217_etapa_3084	1.693940 mm	0.570798 mm	-0.842538 mm
1.354160 mm	0.840759 mm	10.132373 m		