Universidade Federal do Rio de Janeiro
Faculdade de Arquitetura e Urbanismo

AUTOCAD

REVIT

Gráfica_Digital

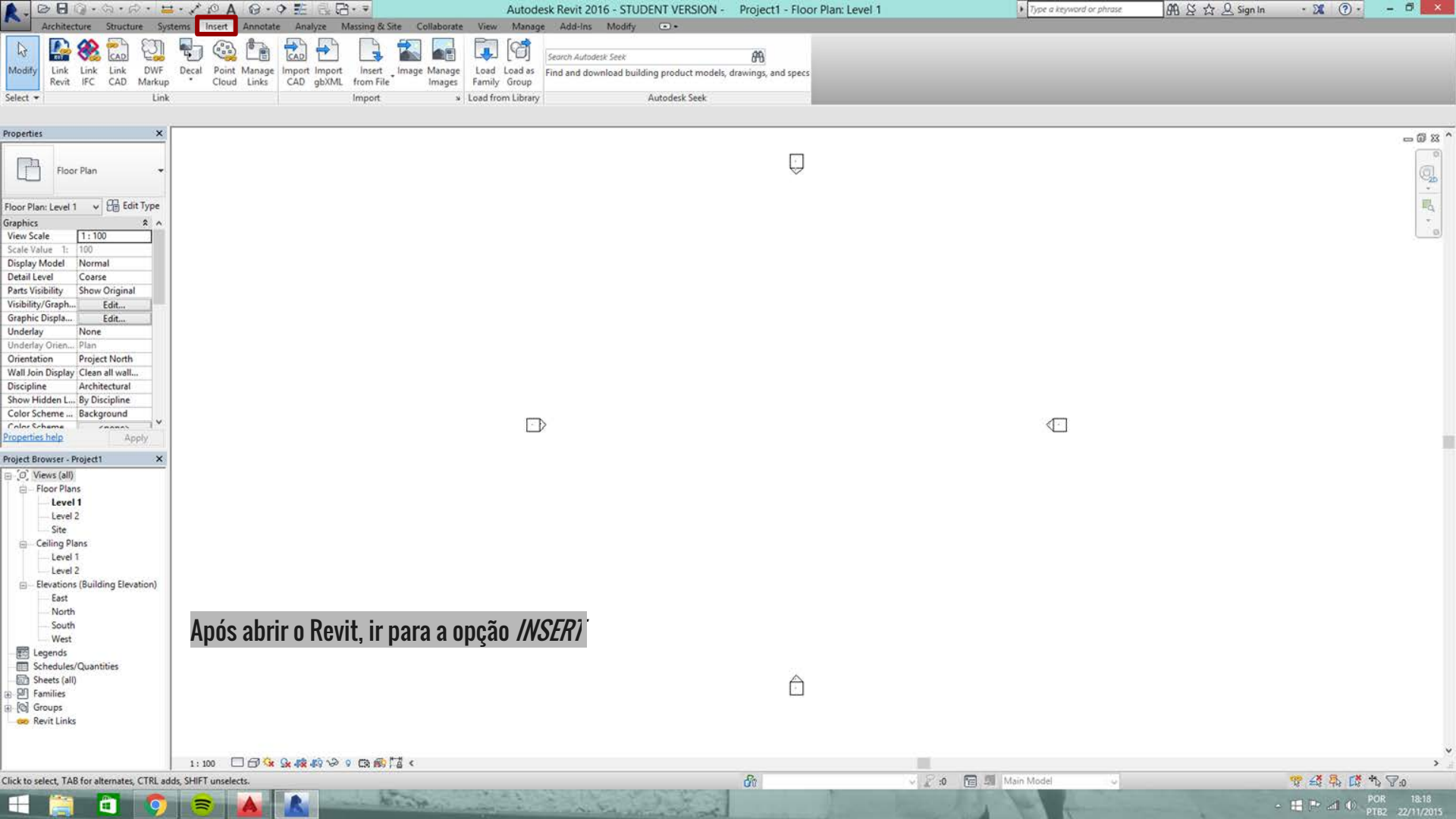
# CAD_08 - Abrir um arquivo de AutoCad .dwg no Revit

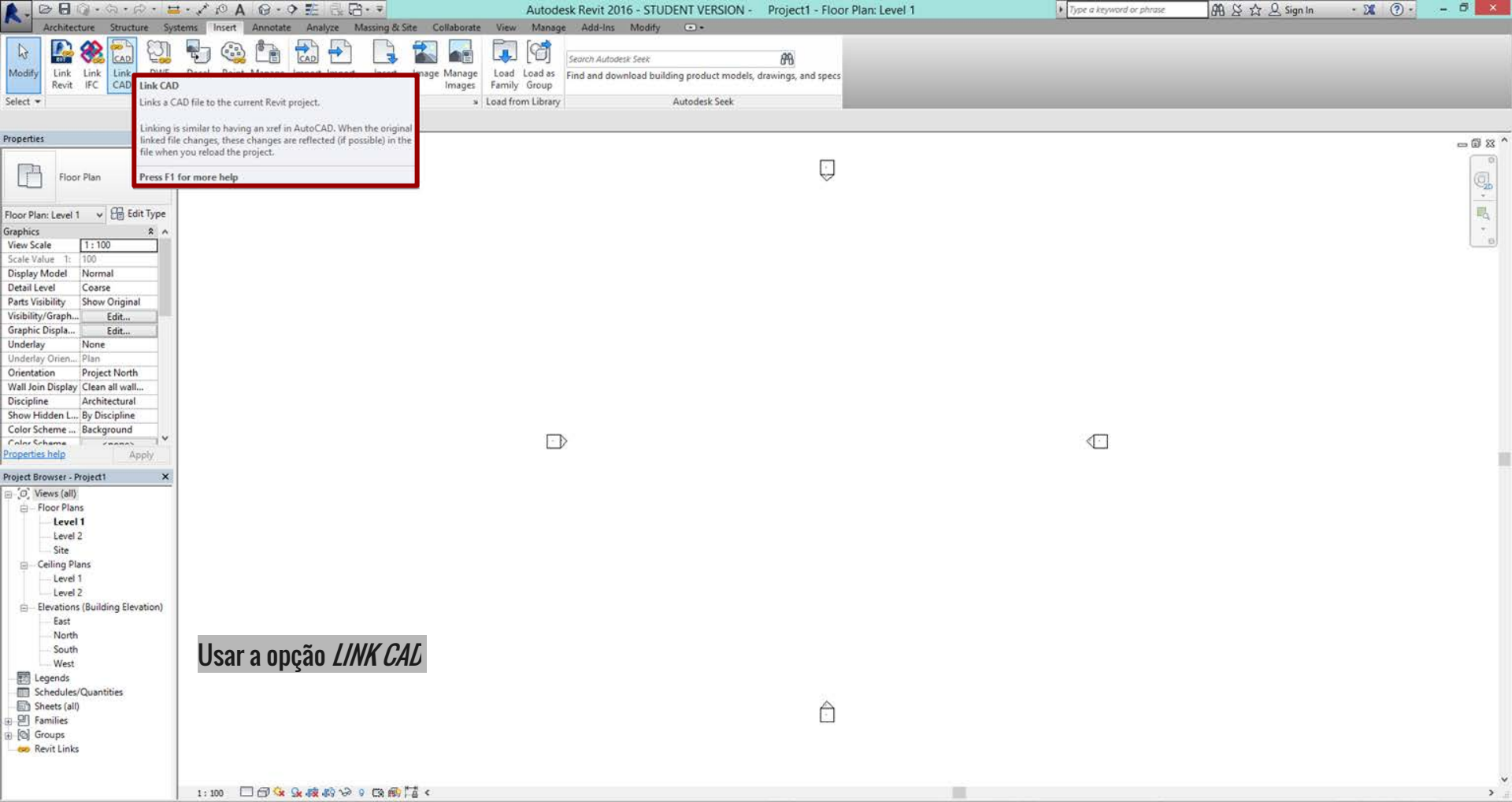
Este tutorial foi elaborado pela equipe de monitores de DIG de 2015-2

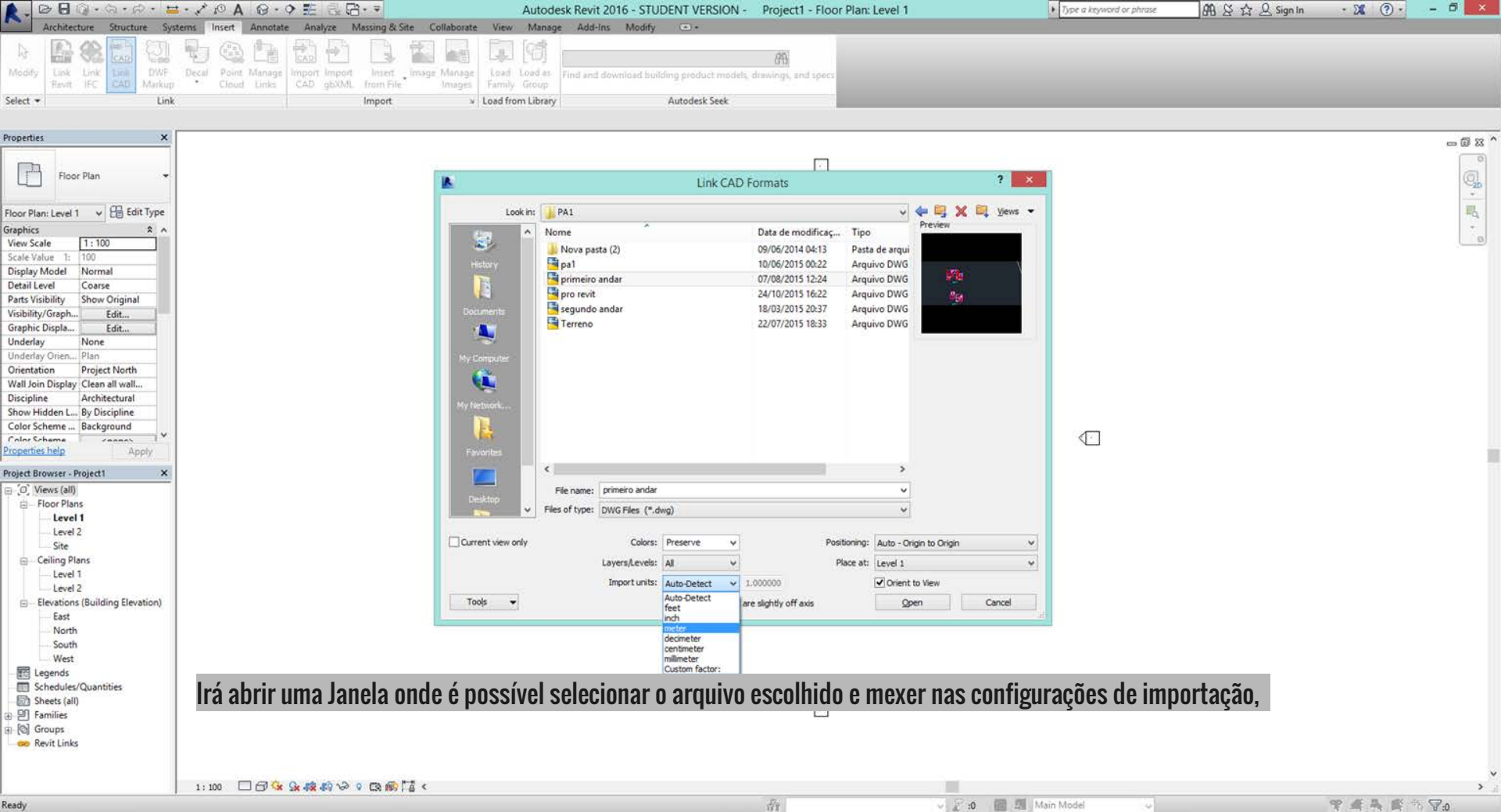
Aline Loura,
Angélica Villon,
Bia de Assis,
Clara Coura,
Igor Dias,
Melissa Borges,
Pedro de Andrade e
Valéria Fialho

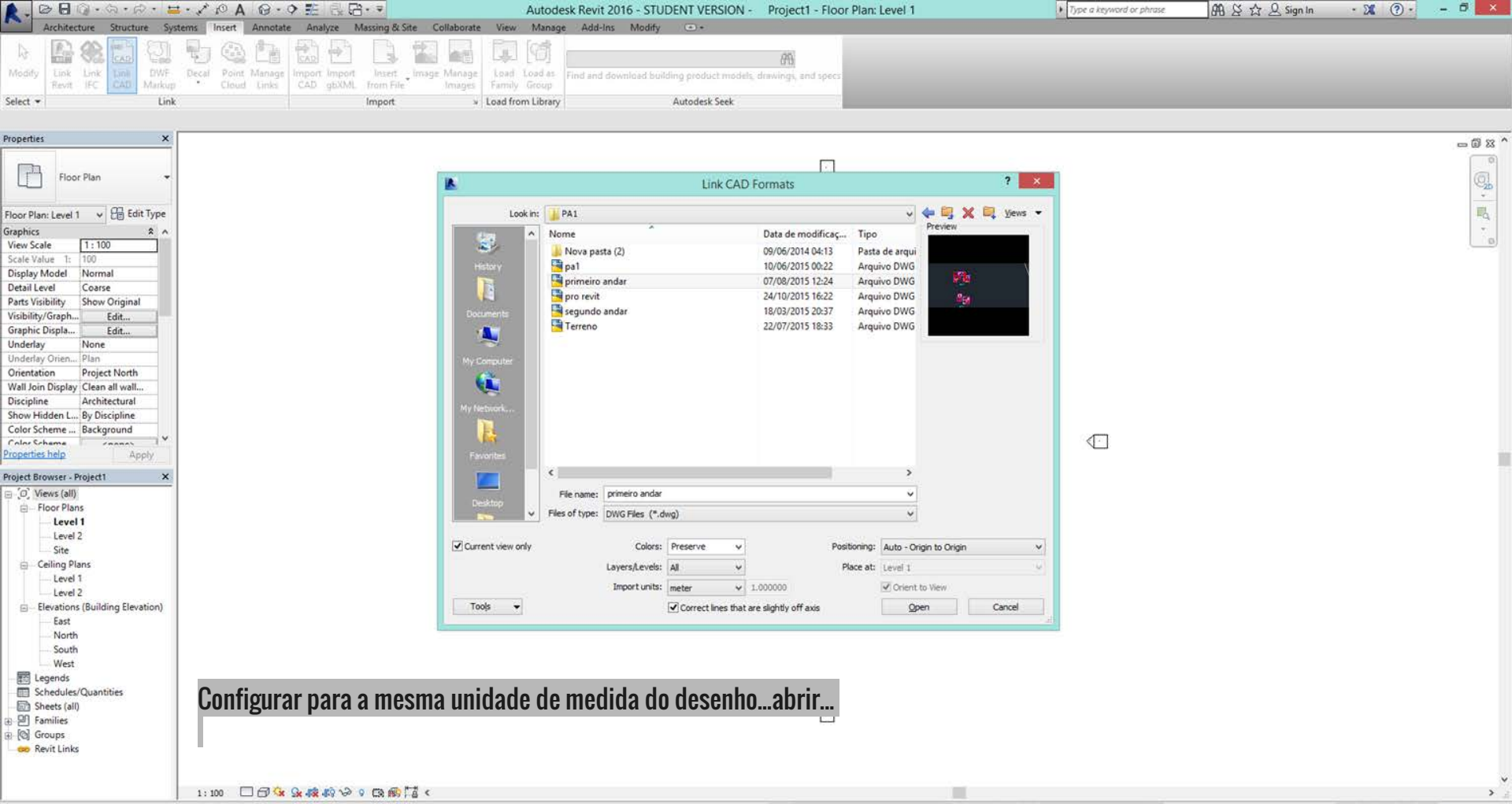
Professor coordenador da disciplina

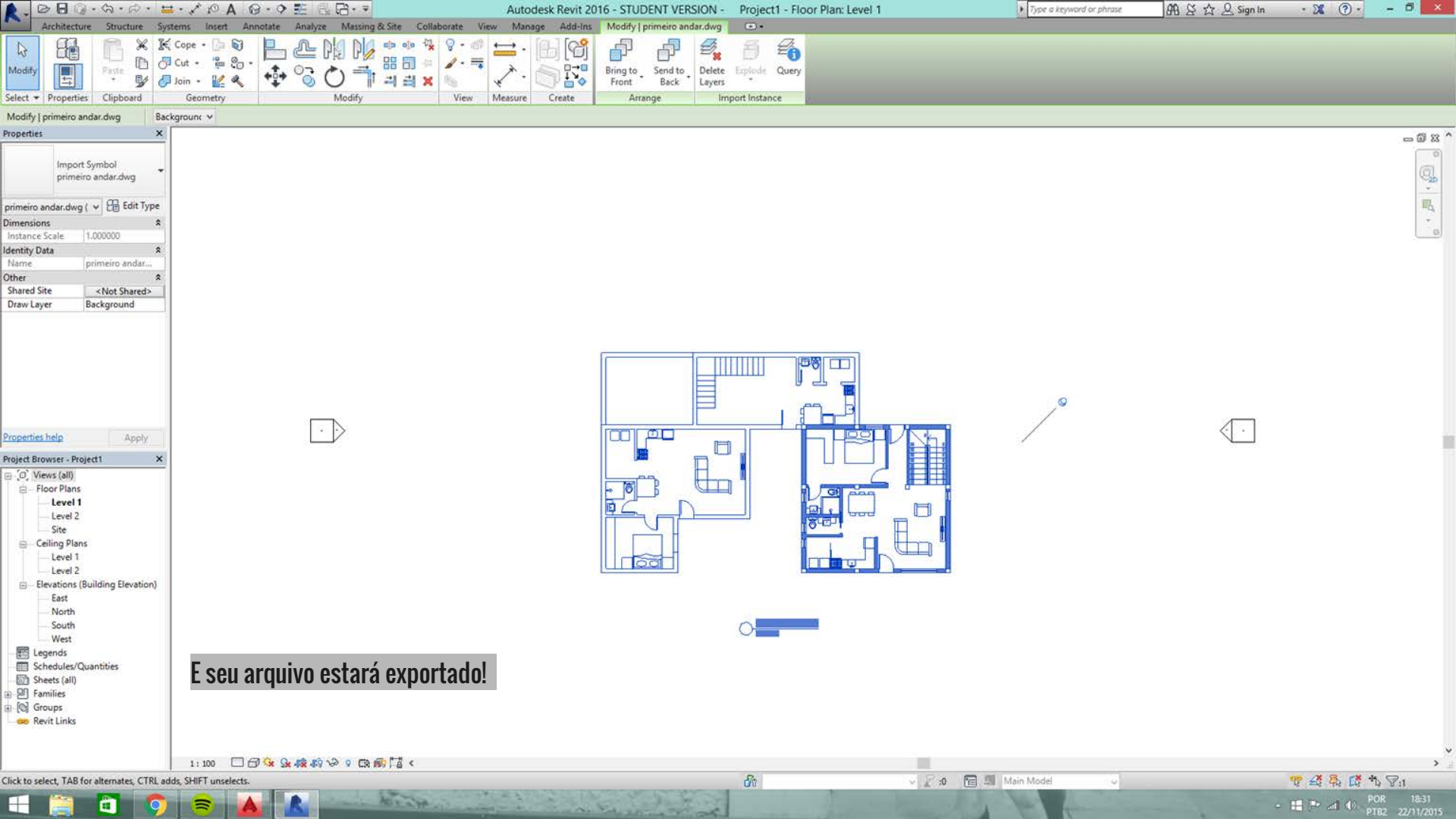
Prof. Dr. Thiago Leitão

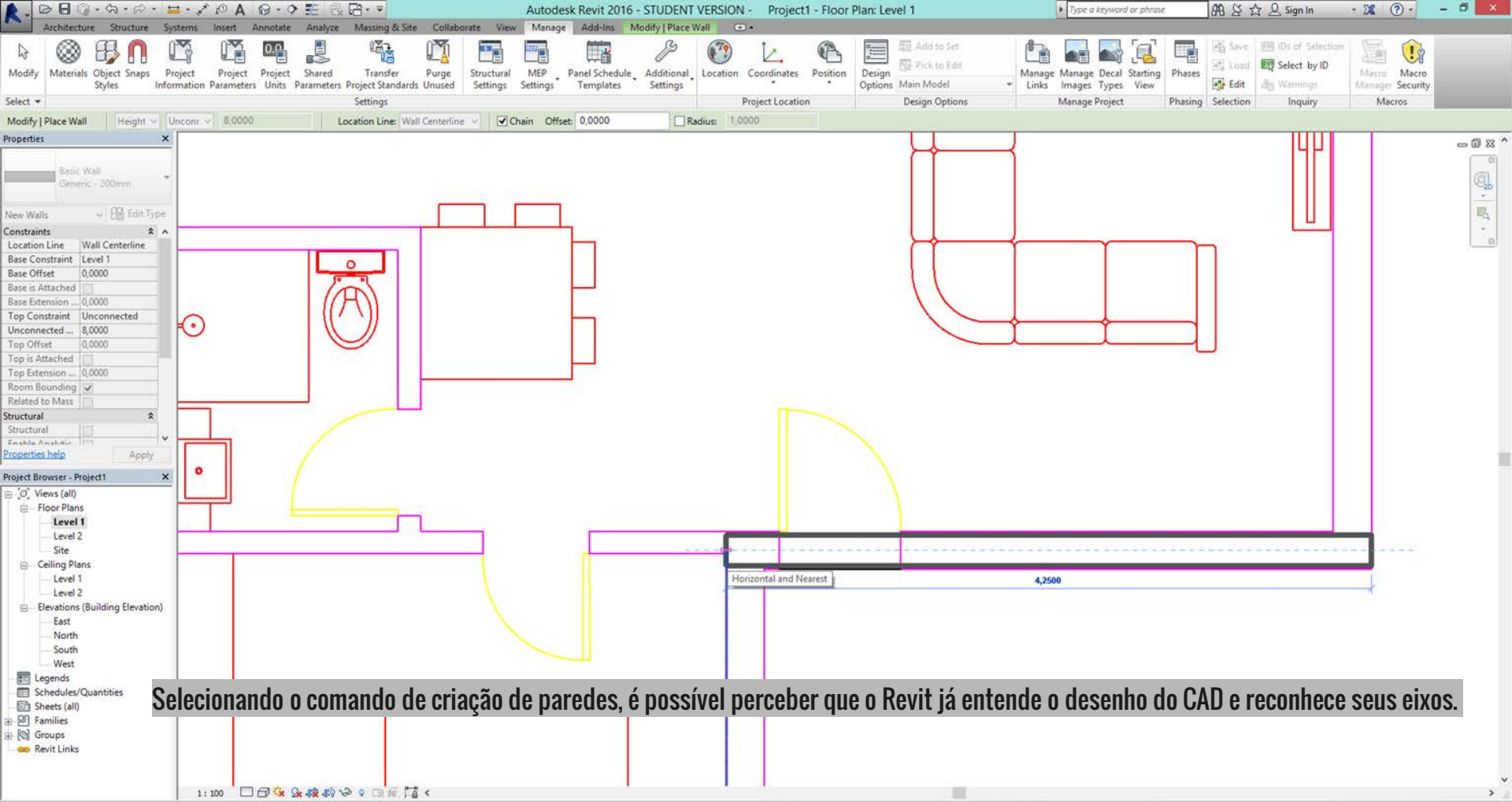

Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify
Modify
Link Revit
Link IFC
Link CAD
DWF Markup
Decal
Point Cloud
Manage Links
Import CAD
Import gbXML
Insert from File
Image
Manage Images
Load Family
Load as Group
Search Autodesk Seek
Find and download building product models, drawings, and specs
Select
Link
Import
Load from Library
Autodesk Seek
Properties
Floor Plan
Floor Plan: Level 1
Edit Type
Graphics
View Scale 1 : 100
Scale Value 1: 100
Display Model Normal
Detail Level Coarse
Parts Visibility Show Original
Visibility/Graph... Edit...
Graphic Displa... Edit...
Underlay None
Underlay Orien... Plan
Orientation Project North
Wall Join Display Clean all wall...
Discipline Architectural
Show Hidden L... By Discipline
Color Scheme ... Background
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
Após abrir o Revit, ir para a opção INSERT
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Main Model
POR
PTB2
18:18
22/11/2015


Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify
Modify
Link Revit
Link IFC
Link CAD
Load Family
Load as Group
Manage Images
Search Autodesk Seek
Find and download building product models, drawings, and specs
Select
Load from Library
Autodesk Seek
Link CAD
Links a CAD file to the current Revit project.
Linking is similar to having an xref in AutoCAD. When the original linked file changes, these changes are reflected (if possible) in the file when you reload the project.
Press F1 for more help
Properties
Floor Plan
Floor Plan: Level 1
Edit Type
Graphics
View Scale 1 : 100
Scale Value 1: 100
Display Model Normal
Detail Level Coarse
Parts Visibility Show Original
Visibility/Graph... Edit...
Graphic Displa... Edit...
Underlay None
Underlay Orien... Plan
Orientation Project North
Wall Join Display Clean all wall...
Discipline Architectural
Show Hidden L... By Discipline
Color Scheme ... Background
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
Usar a opção LINK CAD
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Main Model

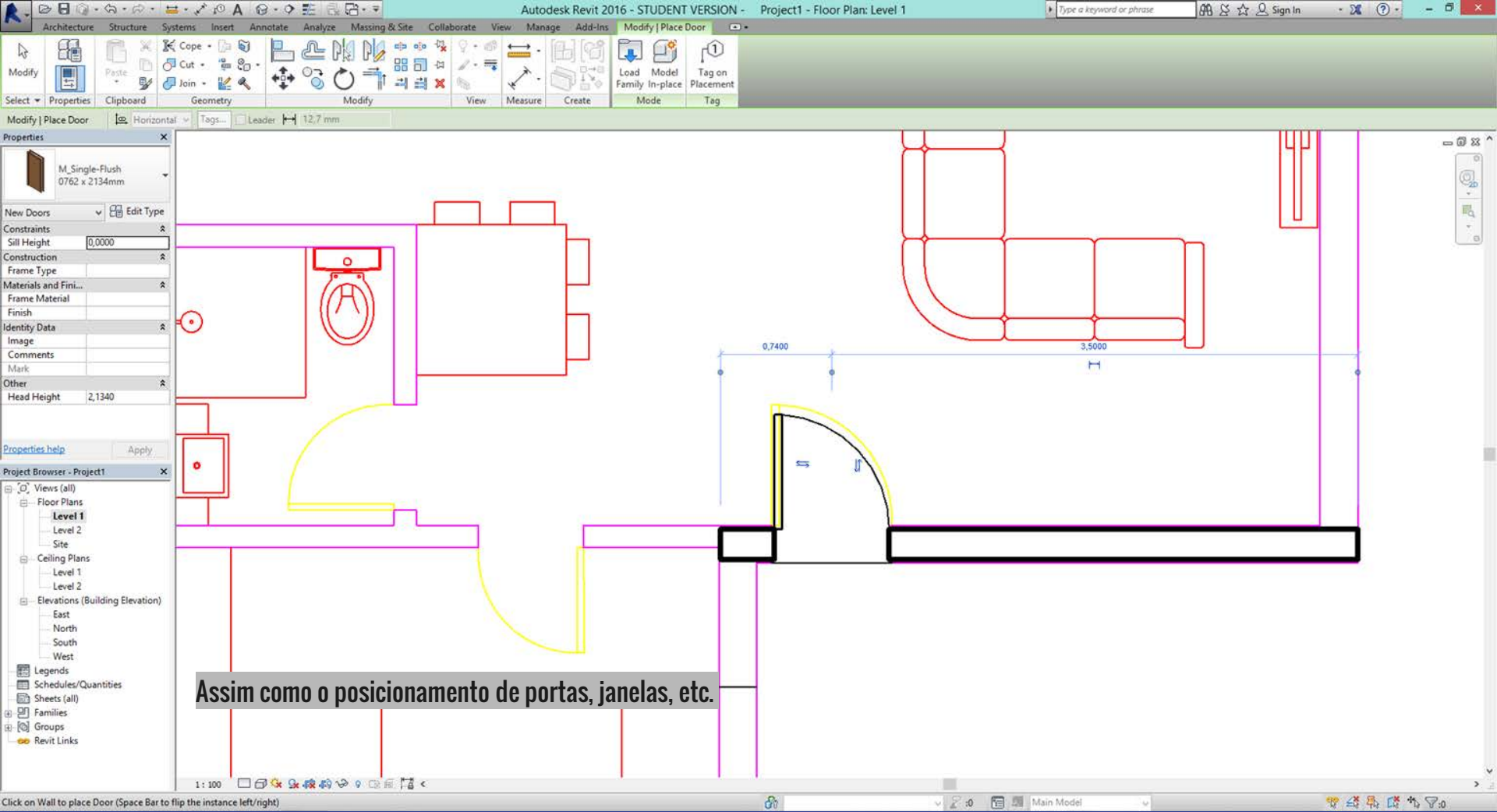

Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify
Link Import Load from Library Autodesk Seek
Properties
Floor Plan
Floor Plan: Level 1
Edit Type
Graphics
View Scale 1 : 100
Scale Value 1: 100
Display Model Normal
Detail Level Coarse
Parts Visibility Show Original
Visibility/Graph... Edit...
Graphic Displa... Edit...
Underlay None
Underlay Orien... Plan
Orientation Project North
Wall Join Display Clean all wall...
Discipline Architectural
Show Hidden L... By Discipline
Color Scheme ... Background
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
Link CAD Formats
Look in: PA1
Views
Preview
Nome
Data de modificaç...
Tipo
Nova pasta (2) 09/06/2014 04:13 Pasta de arqui
pa1 10/06/2015 00:22 Arquivo DWG
primeiro andar 07/08/2015 12:24 Arquivo DWG
pro revit 24/10/2015 16:22 Arquivo DWG
segundo andar 18/03/2015 20:37 Arquivo DWG
Terreno 22/07/2015 18:33 Arquivo DWG
History
Documents
My Computer
My Network...
Favorites
Desktop
File name: primeiro andar
Files of type: DWG Files (*.dwg)
Current view only
Colors: Preserve
Layers/Levels: All
Import units: Auto-Detect
Auto-Detect
feet
inch
meter
decimeter
centimeter
millimeter
Custom factor:
1.000000
are slightly off axis
Positioning: Auto - Origin to Origin
Place at: Level 1
Orient to View
Tools
Open
Cancel
Irá abrir uma Janela onde é possível selecionar o arquivo escolhido e mexer nas configurações de importação,
1 : 100
Ready
Main Model

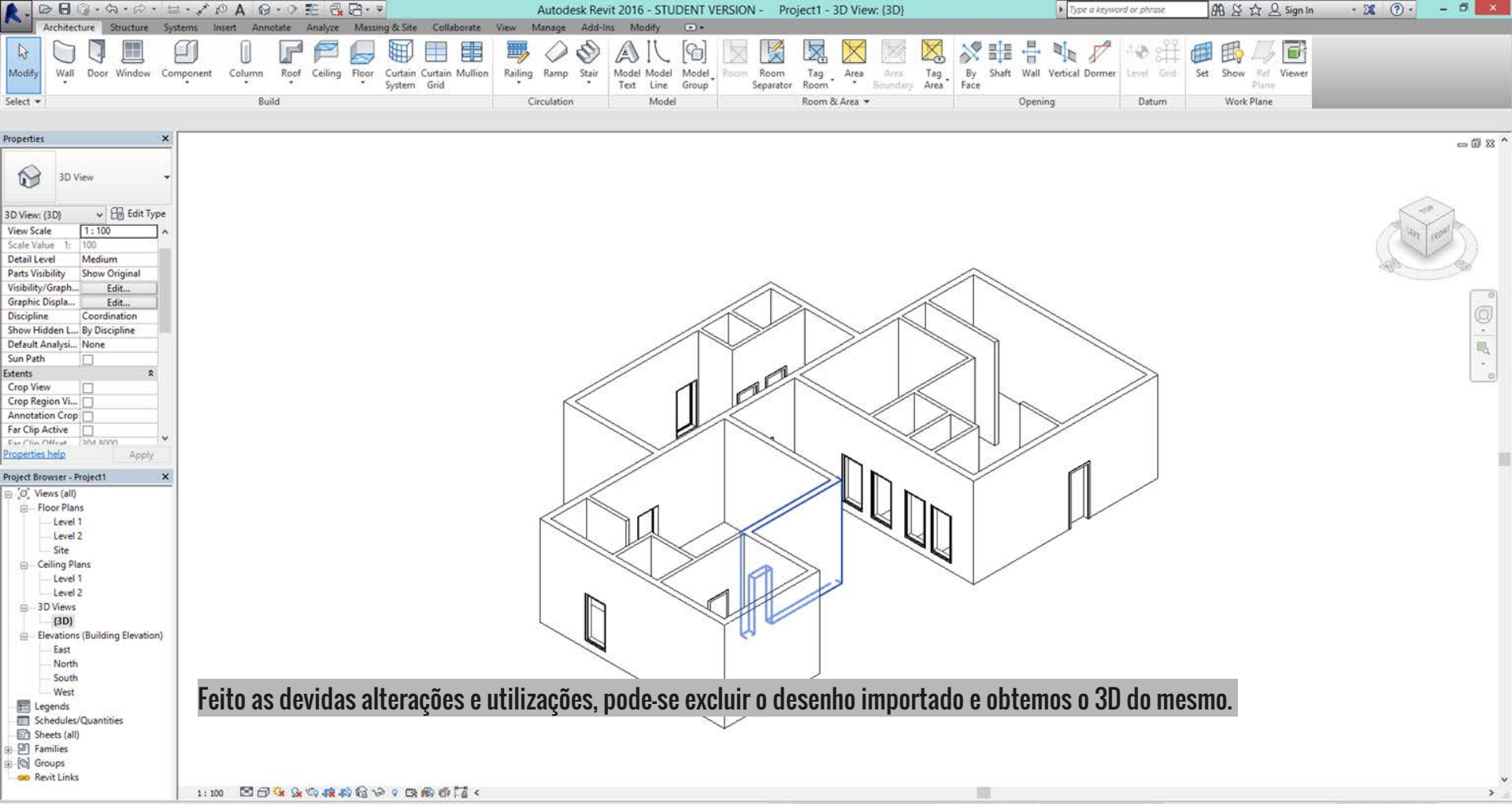

Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Link CAD Formats
Look in: PA1
Nome
Data de modificaç...
Tipo
Nova pasta (2) 09/06/2014 04:13 Pasta de arqui
pa1 10/06/2015 00:22 Arquivo DWG
primeiro andar 07/08/2015 12:24 Arquivo DWG
pro revit 24/10/2015 16:22 Arquivo DWG
segundo andar 18/03/2015 20:37 Arquivo DWG
Terreno 22/07/2015 18:33 Arquivo DWG
Preview
File name: primeiro andar
Files of type: DWG Files (*.dwg)
Current view only
Colors: Preserve
Layers/Levels: All
Import units: meter 1.000000
Positioning: Auto - Origin to Origin
Place at: Level 1
Orient to View
Correct lines that are slightly off axis
Tools
Open
Cancel
Configurar para a mesma unidade de medida do desenho...abrir...


Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify | primeiro andar.dwg
Modify
Select
Properties
Clipboard
Geometry
Modify
View
Measure
Create
Bring to Front
Send to Back
Delete Layers
Explode
Query
Arrange
Import Instance
Modify | primeiro andar.dwg
Properties
Import Symbol
primeiro andar.dwg
Edit Type
Dimensions
Instance Scale 1.000000
Identity Data
Name primeiro andar...
Other
Shared Site <Not Shared>
Draw Layer Background
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
E seu arquivo estará exportado!
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Main Model




Selecionando o comando de criação de paredes, é possível perceber que o Revit já entende o desenho do CAD e reconhece seus eixos.


Autodesk Revit 2016 - STUDENT VERSION - Project1 - Floor Plan: Level 1
Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify | Place Door
Modify
Cope
Cut
Join
Load Family
Model In-place
Tag on Placement
Modify | Place Door
Properties
M_Single-Flush
0762 x 2134mm
New Doors
Edit Type
Constraints
Sill Height 0,0000
Construction
Frame Type
Materials and Fini...
Frame Material
Finish
Identity Data
Image
Comments
Mark
Other
Head Height 2,1340
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
0,7400
3,5000
Assim como o posicionamento de portas, janelas, etc.
1 : 100
Click on Wall to place Door (Space Bar to flip the instance left/right)
Main Model


Autodesk Revit 2016 - STUDENT VERSION - Project1 - 3D View: {3D}
Architecture
Structure
Systems
Insert
Annotate
Analyze
Massing & Site
Collaborate
View
Manage
Add-Ins
Modify
Modify
Wall
Door
Window
Component
Column
Roof
Ceiling
Floor
Curtain System
Curtain Grid
Mullion
Railing
Ramp
Stair
Model Text
Model Line
Model Group
Room
Room Separator
Tag Room
Area
Area Boundary
Tag Area
By Face
Shaft
Wall
Vertical
Dormer
Level
Grid
Set
Show
Ref Plane
Viewer
Select
Build
Circulation
Model
Room & Area
Opening
Datum
Work Plane
Properties
3D View
3D View: {3D}
Edit Type
View Scale 1 : 100
Scale Value 1: 100
Detail Level Medium
Parts Visibility Show Original
Visibility/Graph... Edit...
Graphic Displa... Edit...
Discipline Coordination
Show Hidden L... By Discipline
Default Analysi... None
Sun Path
Extents
Crop View
Crop Region Vi...
Annotation Crop
Far Clip Active
Properties help
Apply
Project Browser - Project1
Views (all)
Floor Plans
Level 1
Level 2
Site
Ceiling Plans
Level 1
Level 2
3D Views
{3D}
Elevations (Building Elevation)
East
North
South
West
Legends
Schedules/Quantities
Sheets (all)
Families
Groups
Revit Links
Feito as devidas alterações e utilizações, pode-se excluir o desenho importado e obtemos o 3D do mesmo.
1 : 100
Walls : Basic Wall : Generic - 250mm
Main Model