



# Mec E 468 Numerical Simulation in Mechanical Engineering Design

## AUTOMARK REPORT

**Semester: Win 2022**

**Instructor: Prof. David S. Nobes**

**Student Name:**

**Assignment: Assignment No 1**

**PROCESSING DATE: August 16, 2022**

*AUTOMark Assessment Grade: 269 out of 290*

*AUTOMark Recommended Grade: 93 out of 100*

**NOTE: This grade is preliminary only and needs to be confirmed.**

The following pages include each of the drawings in the following order:

- Your submission
- Your submission marked by AutoMARK
- The solution

**Other important points:**

- Examples are given on eClass of how to interpret the mark-up symbols used by AUTOMark.
- If you have any questions, discuss with you TA in the next lab time.

DRAWING CREATION DATE: 23-Dec-2020 16:08:23

DRAWING LAST SAVE DATE: 29-Jun-2022 11:47:34

MODEL CREATION DATE: 09-Jun-2016 09:39:47

MODEL LAST SAVE DATE: 13-Aug-2021 16:01:41

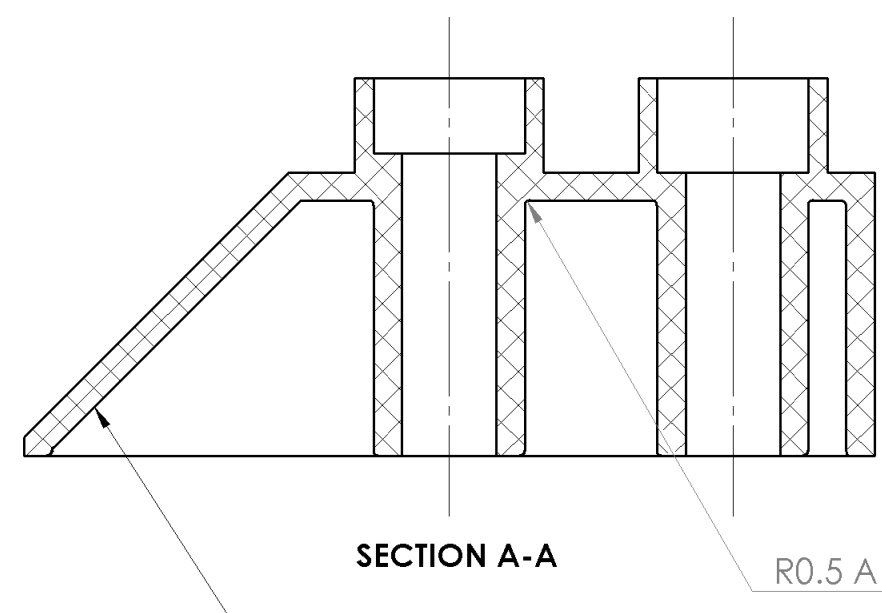
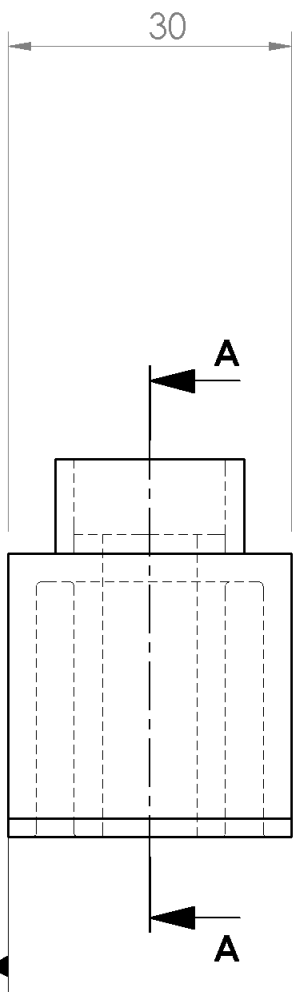
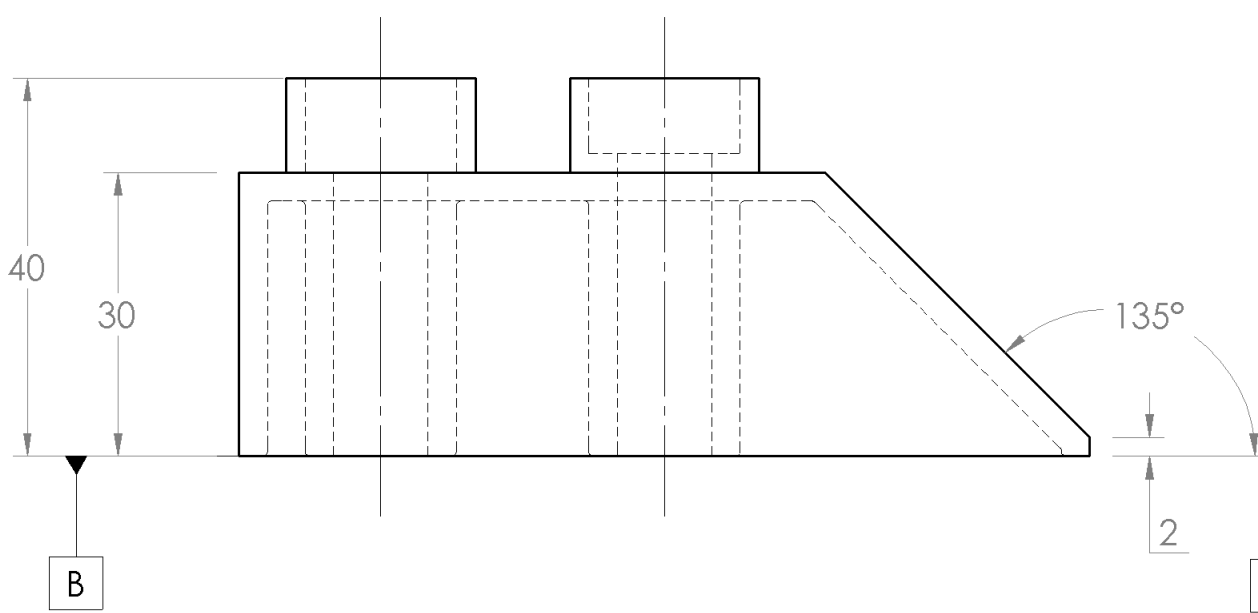
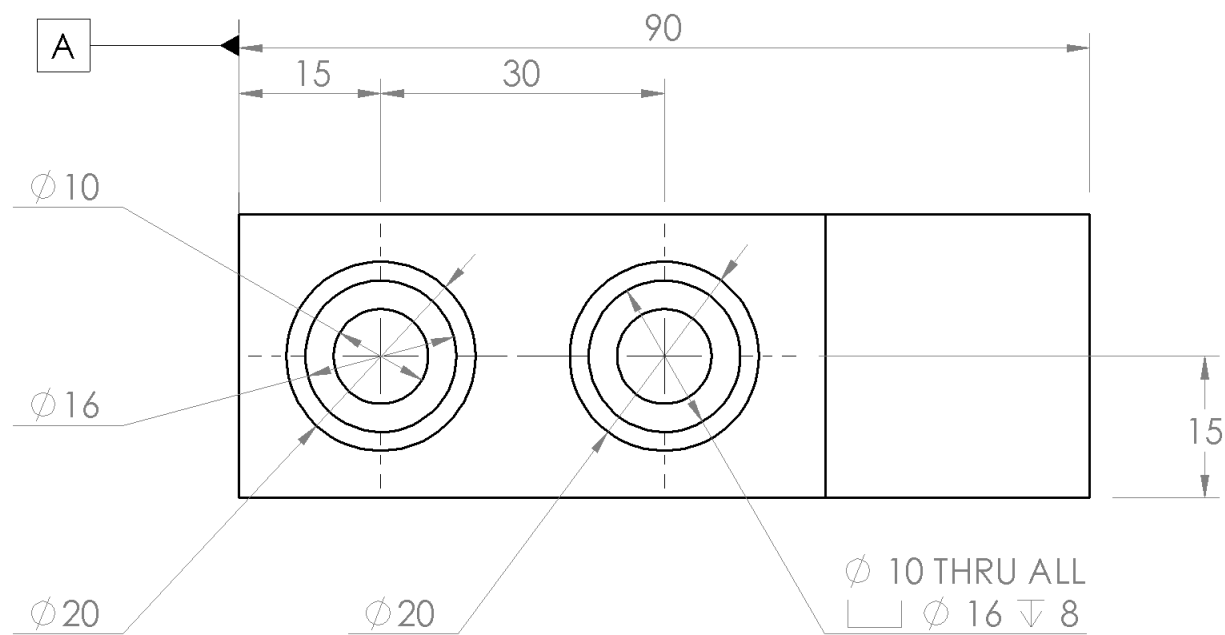
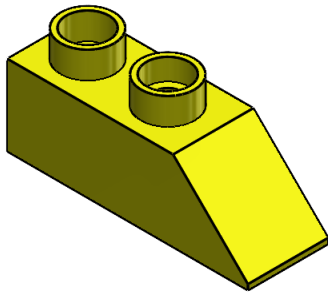
AutoMARK details:

- Sheetnames should contain only alphabetical characters
- Weights of feature properties are set by the marker
- AutoMARK v 4.0 software written and designed by Owen Stadlwieser

AutoMARK Criterion (The weights of these criterion are decided by the marker):

- DRAWING: SheetOrder, ExtraSheets
- SHEET: SheetPaperSize, SheetScale, SheetTemplate, SheetExtraBOMS, SheetExtraViews, SheetViewTypes, SheetIntersectingBallons
- BILLOFMATERIALS: BOMTableType, BOMNumberColumns, BOMNumberRows, BOM-Position, BOMTableHeight, BOMTableWidth, BOMFontType, BOMFontSize
- VIEW: ViewScale, ViewDisplayStyle, ViewExtraDimension, ViewPosition, ViewExtra-CenterMarks, ViewMass, ViewMaterial, ViewExtraDatums, ViewWrongProjection, ViewEx-traCenterlines
- DIMENSION: DimensionDangling, DimensionWrongView, DimensionPosition, Dimen-sionArrowSide, DimensionValue, DimensionBadText
- CENTERLINE: CenterlineDangling, CenterlinePosition
- CENTERMARK: CentermarkDangling, CentermarkPosition, CentermarkShowlines, Cen-termarkAngle, CentermarkConnectionLines, CentermarkExtensions, CentermarkGap, CentermarkSize, CentermarkGroupedCorrectly
- DATUM: DatumDangling, DatumWrongView, DatumPosition, DatumLabel, DatumDis-playStyle, DatumFilledTriangle
- Ballon: BallonDangling, BallonPosition

| Symbol/Colour | Meaning                  |
|---------------|--------------------------|
| ✓             | No deductions on feature |
| Colour        | Incorrect value          |
| Colour        | Miscellaneous error      |
| Colour        | Incorrect Position       |
| Colour        | Unrecognized feature     |
| Colour        | Missing feature          |
| ?             | Feature not found on key |

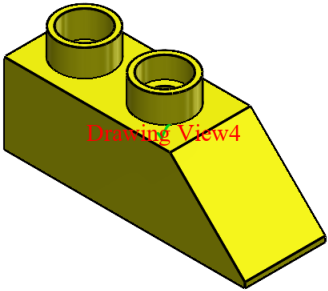


NOTE: Shell All Internal 3mm

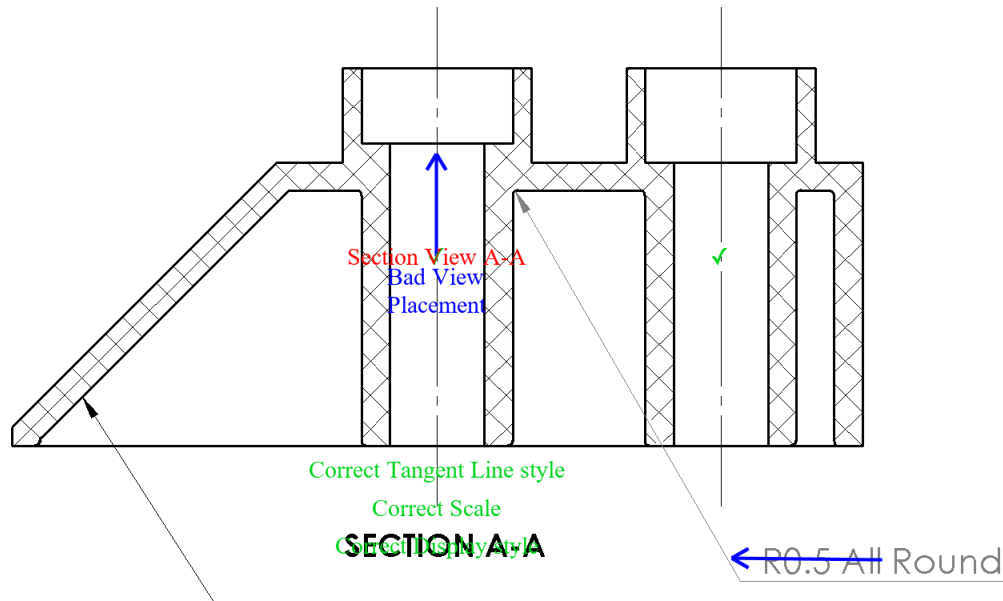
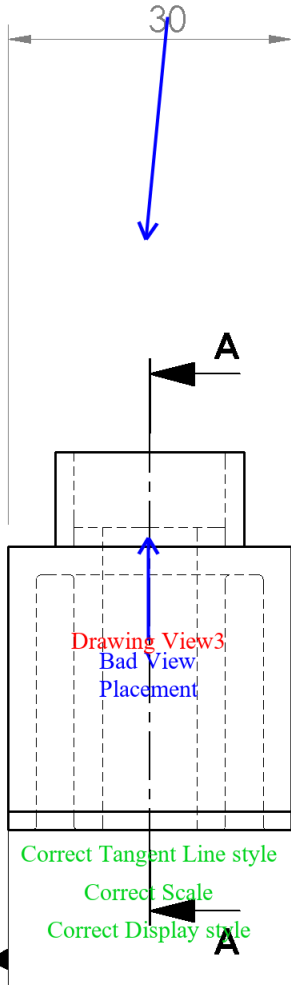
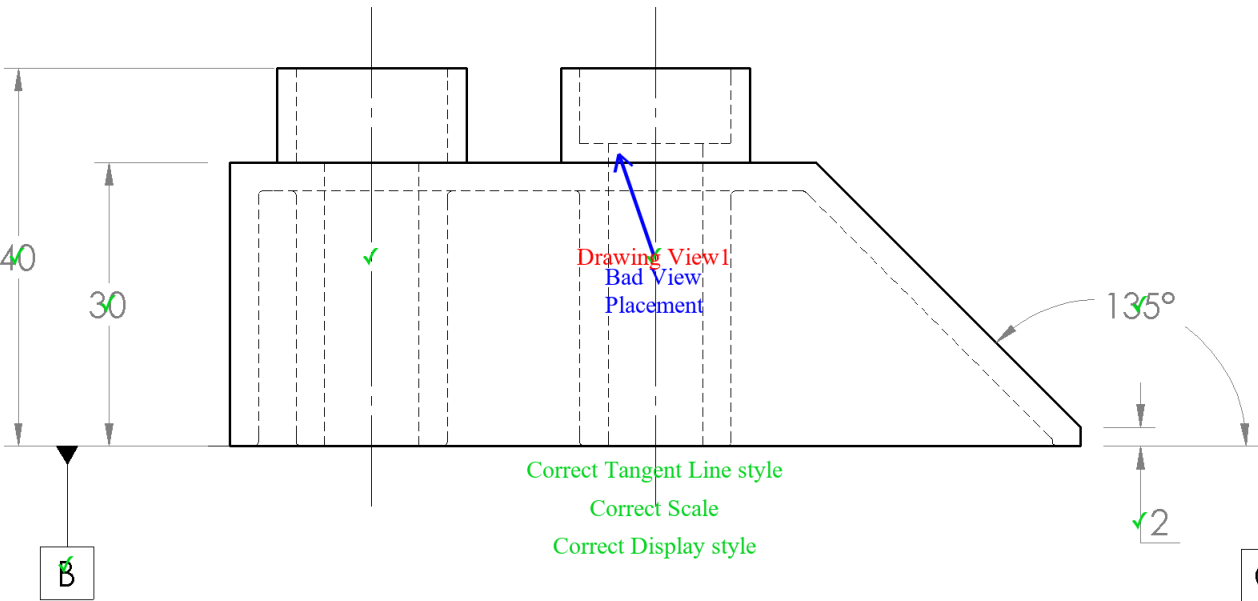
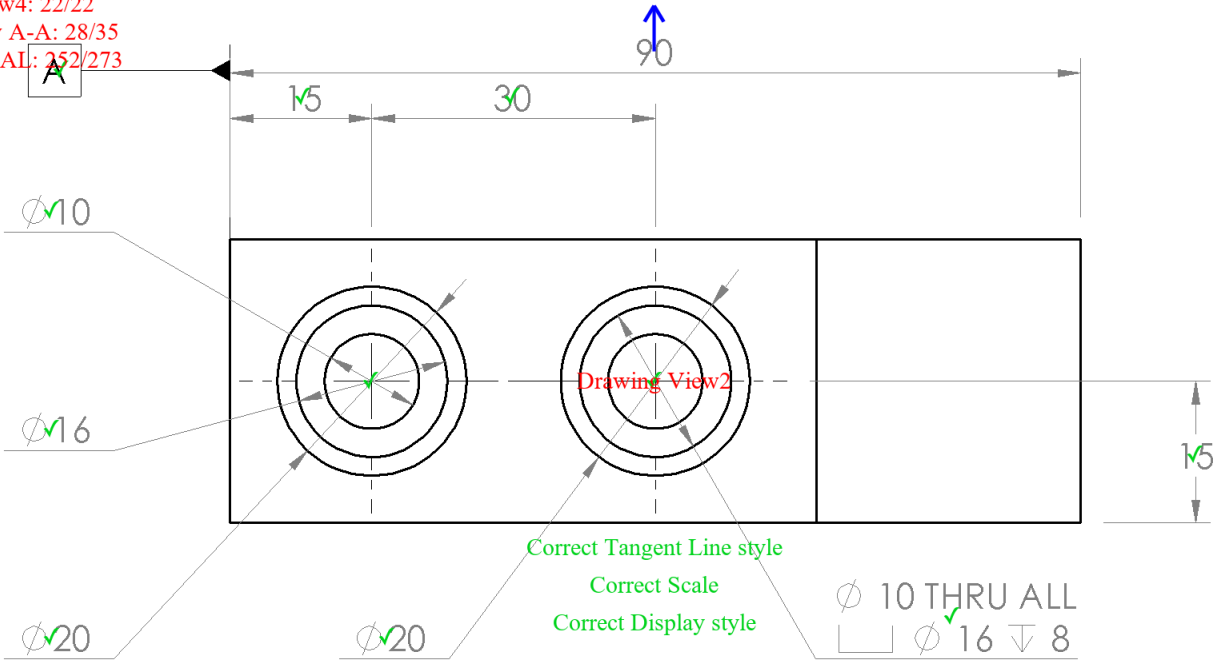
Student Submission

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| <b>MecE 265</b>   |  | UNLESS OTHERWISE SPECIFIED:   |  | DRAWN BY  |  |
| Instructor:<br><b>Dr. Nobes</b><br><b>F2021</b>                                     |  | DIMENSIONS ARE IN MM<br>TOLERANCES:<br>ANGULAR: $\pm 0.5^\circ$<br>LINEAR<br>X = $\pm 0.5$<br>X.X = $\pm 0.1$<br>X.XX = $\pm 0.025$ |  | The Department of Mechanical Engineering<br>UNIVERSITY OF ALBERTA |  |
| Comments:<br>This is my first assignment in<br>MecE 265, but is Assignment<br>ZERO! |  | SURFACE FINISH<br>$\mu\text{m}$ 0.6   |  | Lab Day BOTH  |  |
|   |  | DO NOT SCALE DRAWING  |  | SM By <b>D.S.Nobes</b>  |  |
| MATERIAL:<br><b>ABS</b>   |  |   |  | TA Initials DSN   |  |
| FILE NAME:<br><b>LEGO_BRICK_dnobes</b>  |  |   |  | zacha<br>August 13, 2021 4:01:41 PM<br>June 9, 2016 9:39:47 AM    |  |
|   |  |   |  | TITLE:<br><b>The LEGO BRICK</b>                                   |  |
|   |  |   |  | SIZE <b>B</b> Assignment Number<br>Assignment ZERO                |  |
|   |  |   |  | REV<br>1  |  |
|   |  |   |  | SCALE: 5:4 Mass: 32.36  |  |
|   |  |   |  | SHEET 1 OF 1  |  |

Drawing View1: 47/53  
Drawing View2: 81/82  
Drawing View3: 25/32  
Drawing View4: 22/22  
Section View A-A: 28/35  
SHEET TOTAL: 252/273



Correct Tangent Line style  
Correct Scale  
Correct Display style



### MecE 265

Instructor:  
**Dr. Nobes**  
**F2021**

Comments:  
This is my first assignment in  
MecE 265, but is Assignment  
ZERO!



MATERIAL:  
**ABS**

FILE NAME:  
**LEGO\_BRICK\_dnobes**

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM  
TOLERANCES:  
ANGULAR:  $\pm 0.5^\circ$   
LINEAR  
X =  $\pm 0.5$   
X.X =  $\pm 0.1$   
X.XX =  $\pm 0.025$

SURFACE FINISH  
 $\mu\text{m}$  0.6

DO NOT SCALE DRAWING

DRAWN BY

**David S. Nobes**

Lab Day

BOTH

SM By

**D.S.Nobes**

TA Initials

DSN

zacha  
August 13, 2021 4:01:41 PM  
June 9, 2016 9:39:47 AM

NOTE: Shell All Internal 3mm



The Department of Mechanical Engineering  
UNIVERSITY OF ALBERTA

TITLE:

**The LEGO BRICK**

SIZE

**B**

Assignment Number  
**Assignment ZERO**

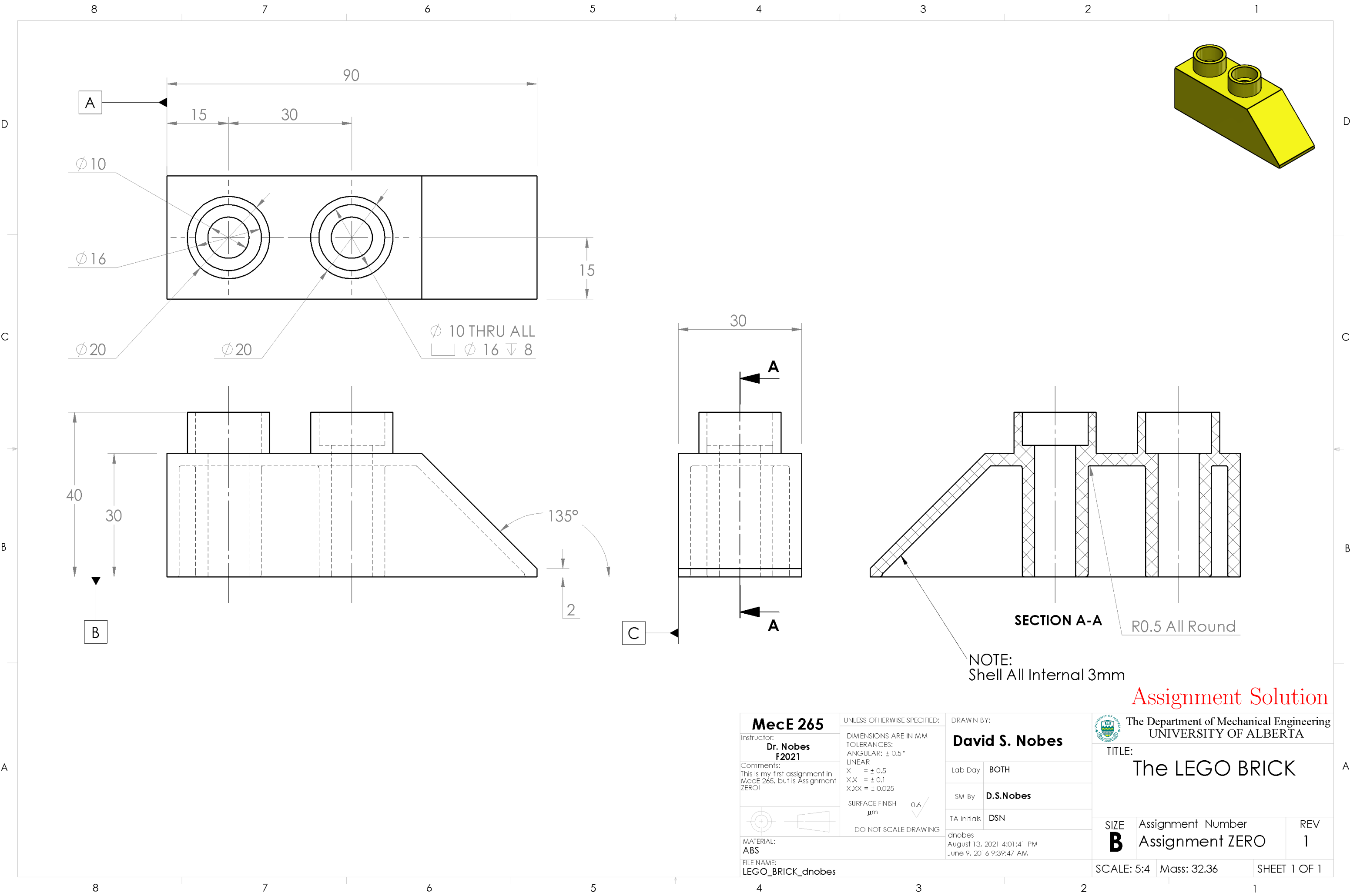
REV

**1**

SCALE: 5:4

Mass: 32.36

SHEET 1 OF 1



Assignment Solution