



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 15, 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

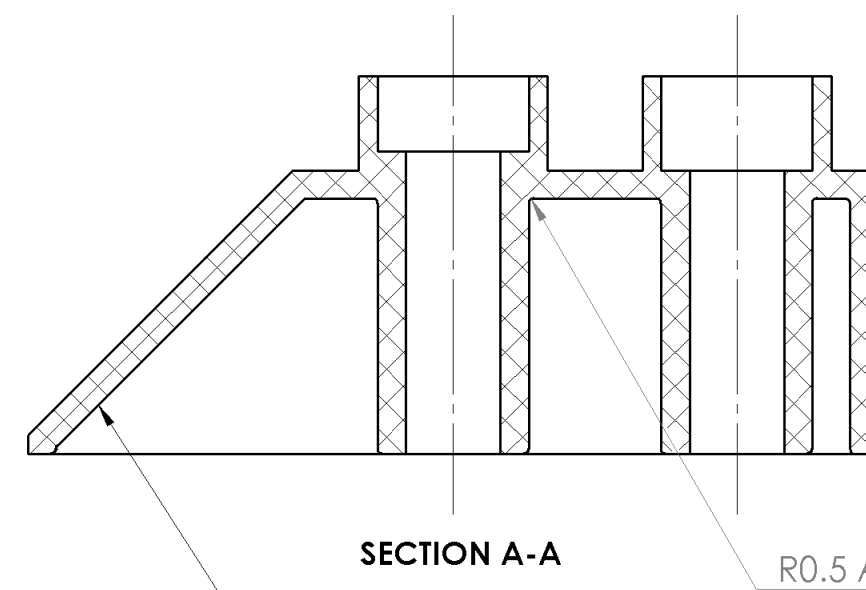
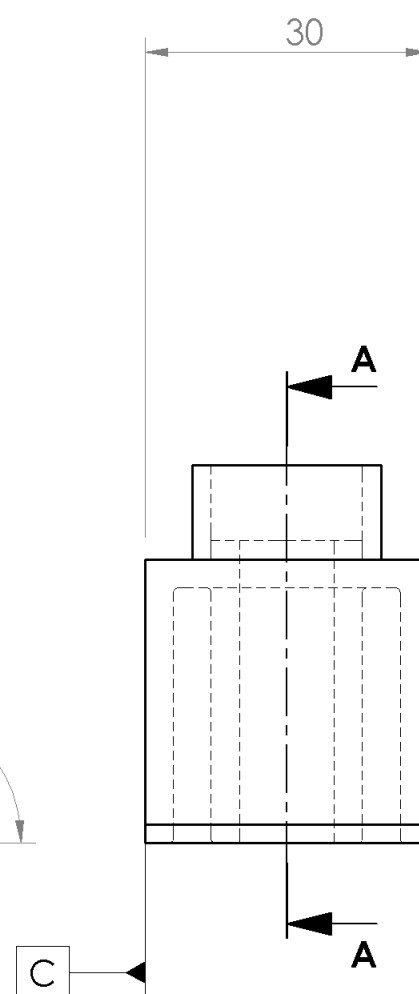
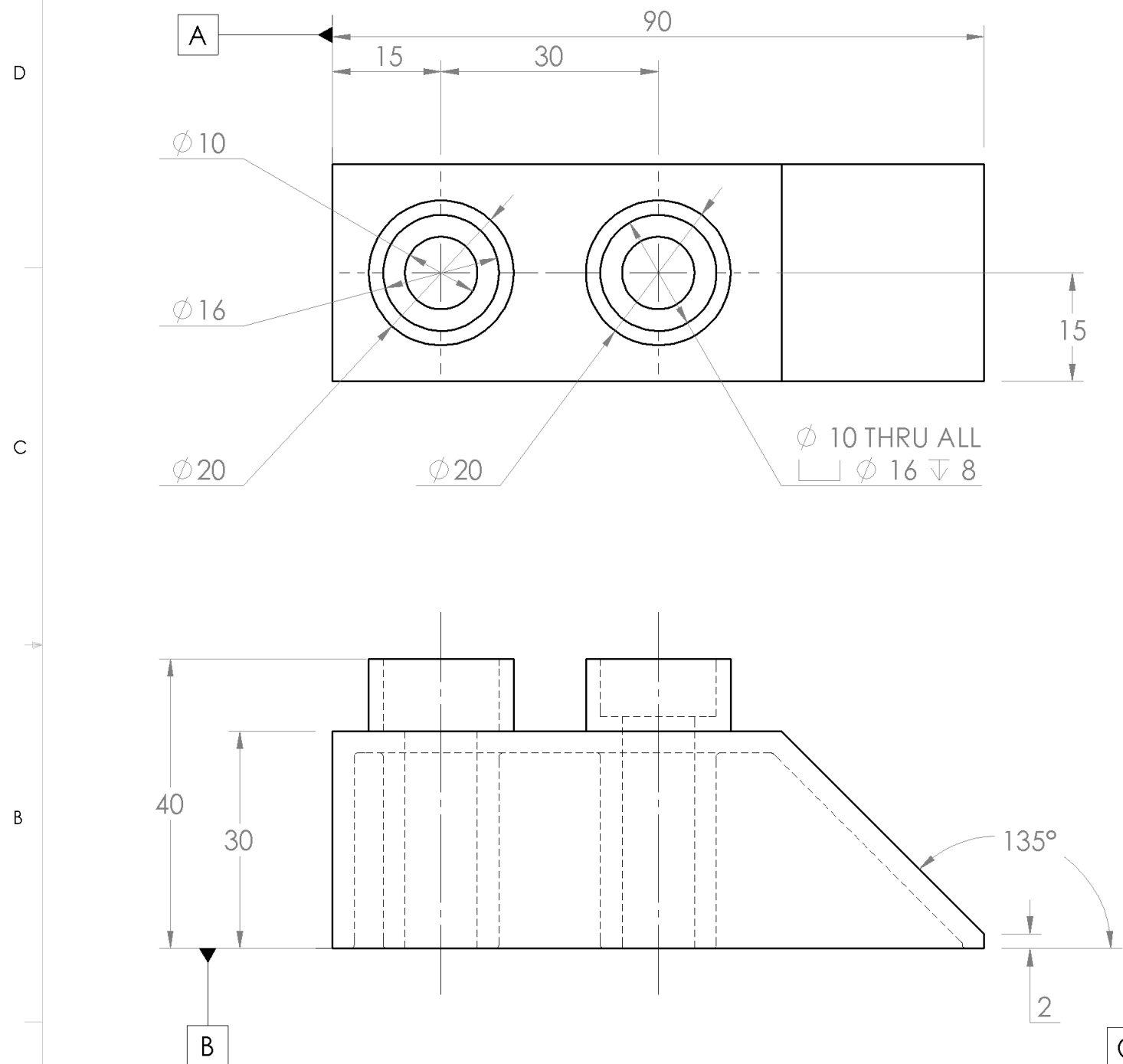
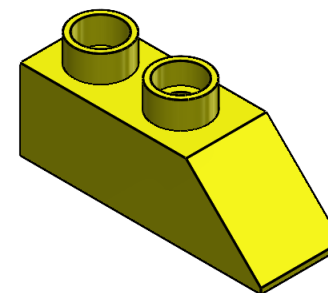
AutoMARK details:

- 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

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

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_dnobs

UNLESS OTHERWISE SPECIFIED:

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

| | |
|----------------|-----|
| SURFACE FINISH | 0.6 |
| μm | ✓ |

DO NOT SCALE DRAWING

DRAWING

David S. Nobes

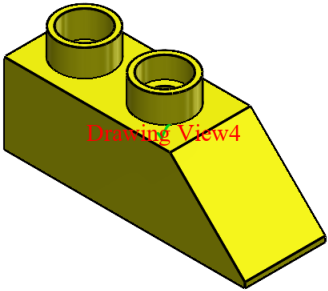
| | |
|---------|-------------|
| Lab Day | BOTH |
|---------|-------------|

SM By **D.S.Nobes**

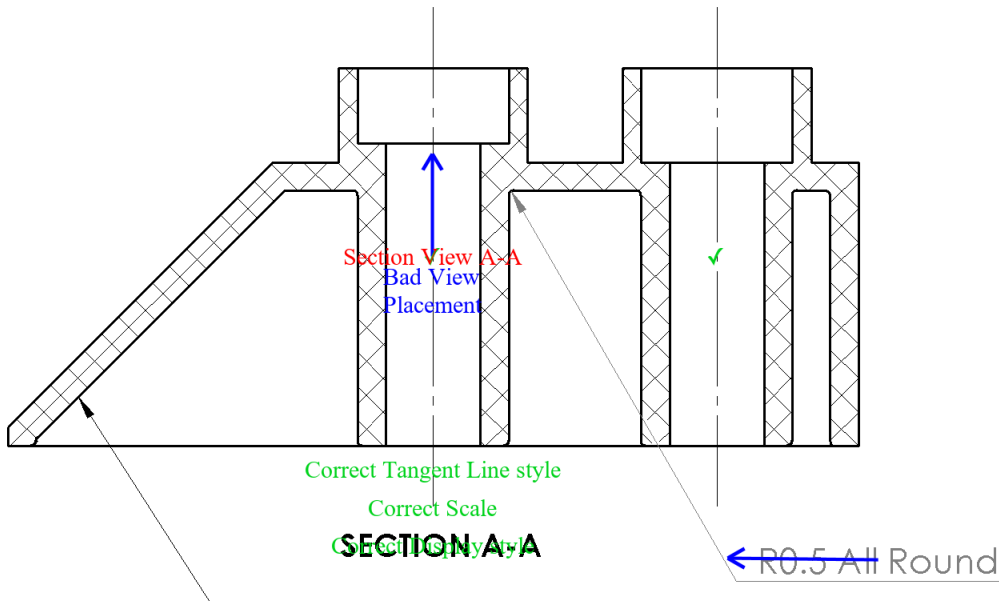
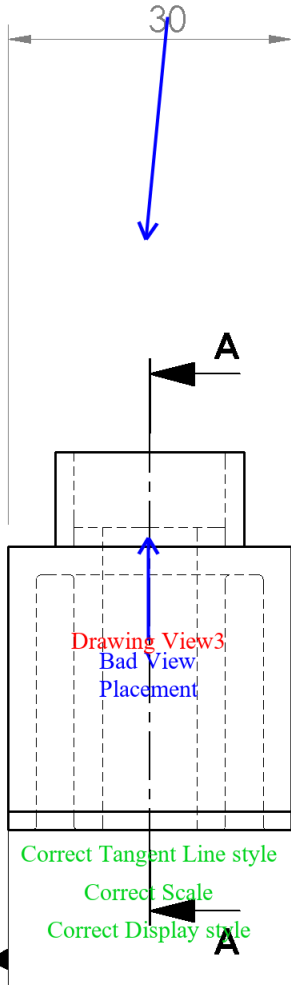
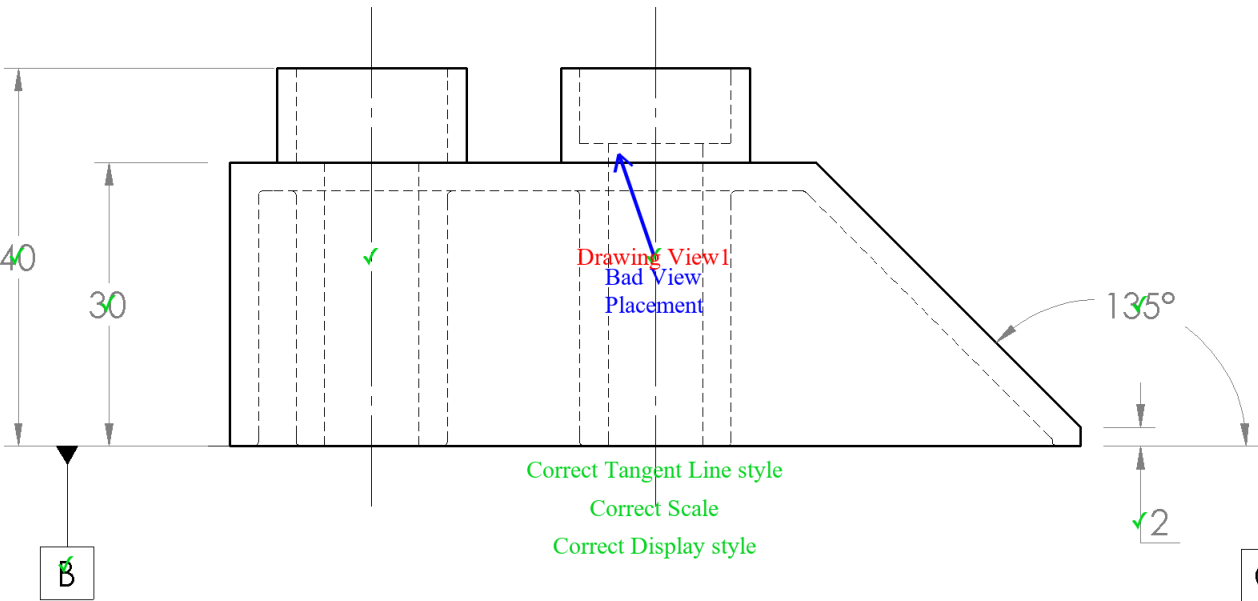
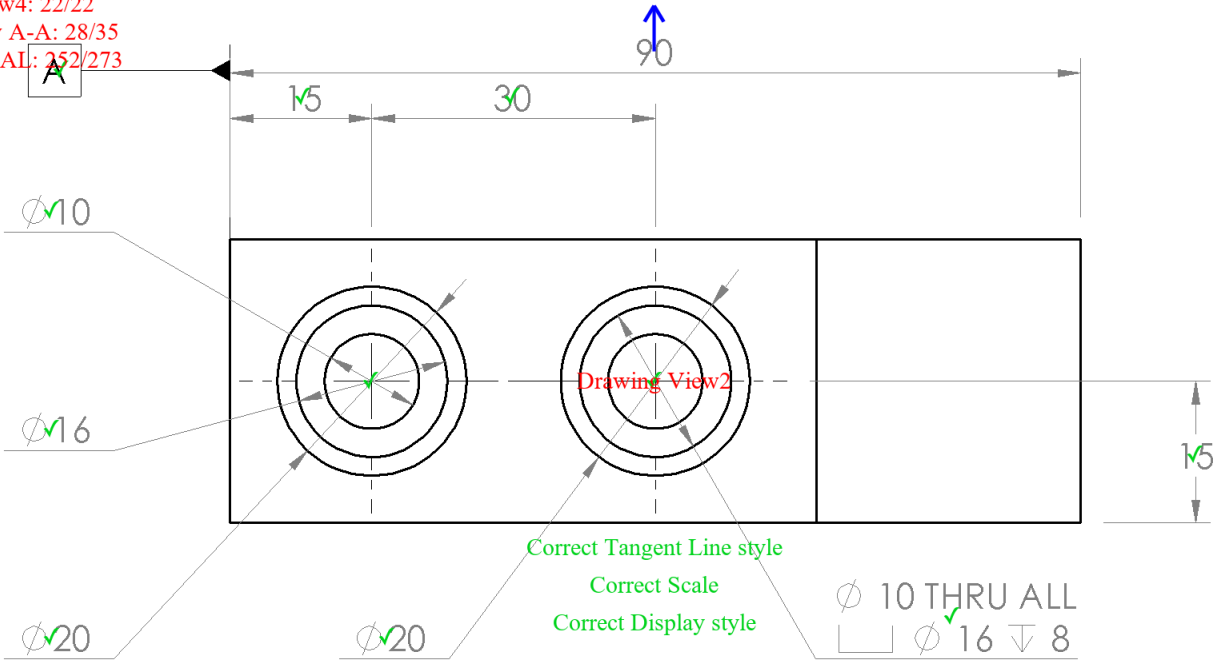
| TA Initials | DSN |
|-------------|-----|
|-------------|-----|

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

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:
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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 = ± 0.5
X.X = ± 0.1
X.XX = ± 0.025

SURFACE FINISH
 μm 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
Automark of Student Submission



The Department of Mechanical Engineering
UNIVERSITY OF ALBERTA

TITLE:

The LEGO BRICK

SIZE

B

Assignment Number
Assignment ZERO

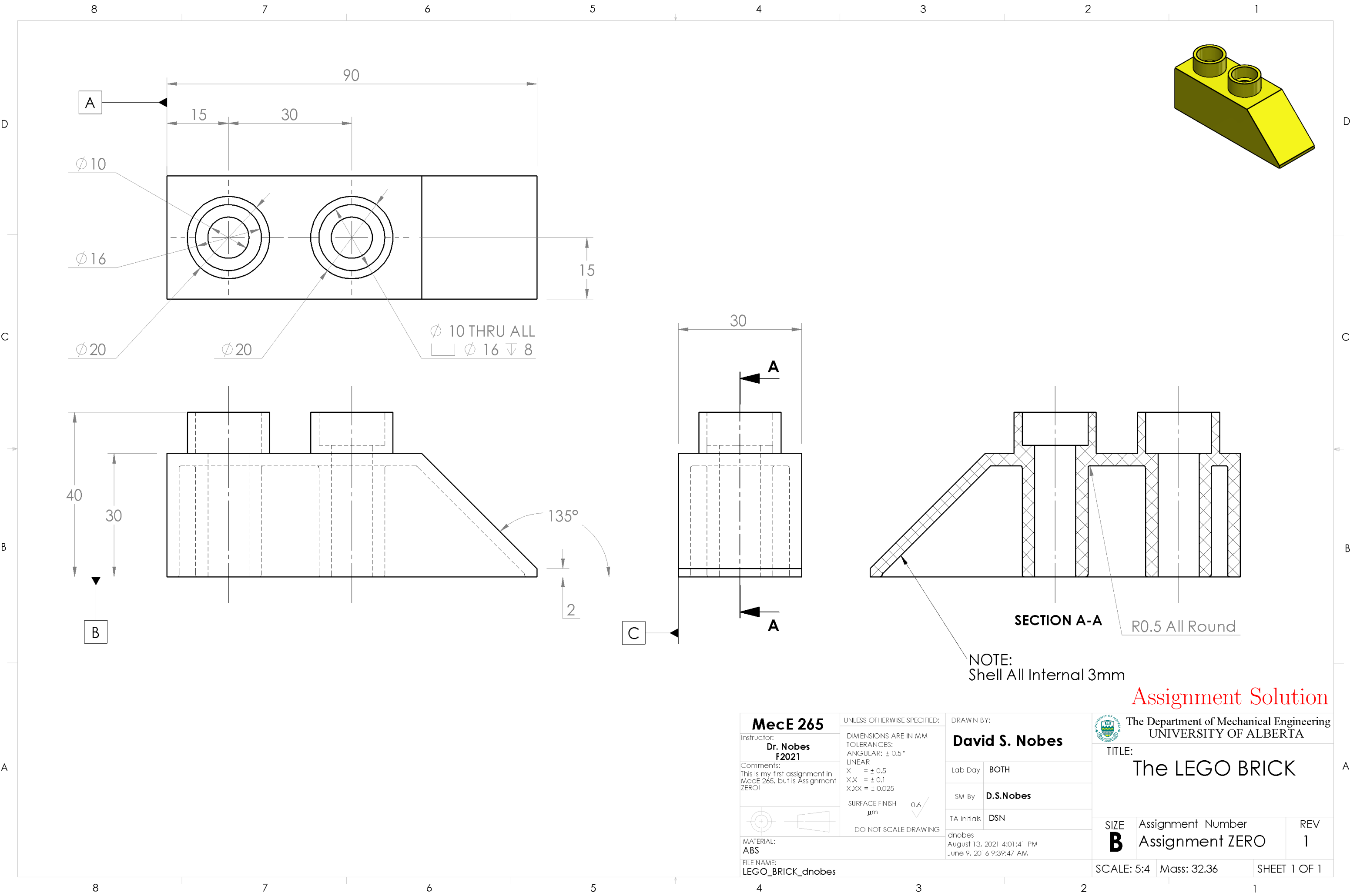
REV

1



SCALE: 5:4

Mass: 32.36

SHEET 1 OF 1



Assignment Solution

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