



# 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: **272 out of 290***

*AUTOMark Recommended Grade: **94 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 11:46:54

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

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

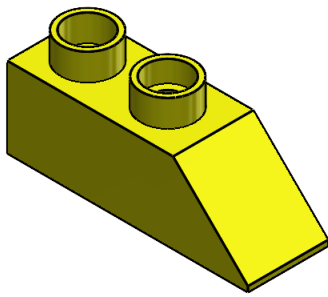
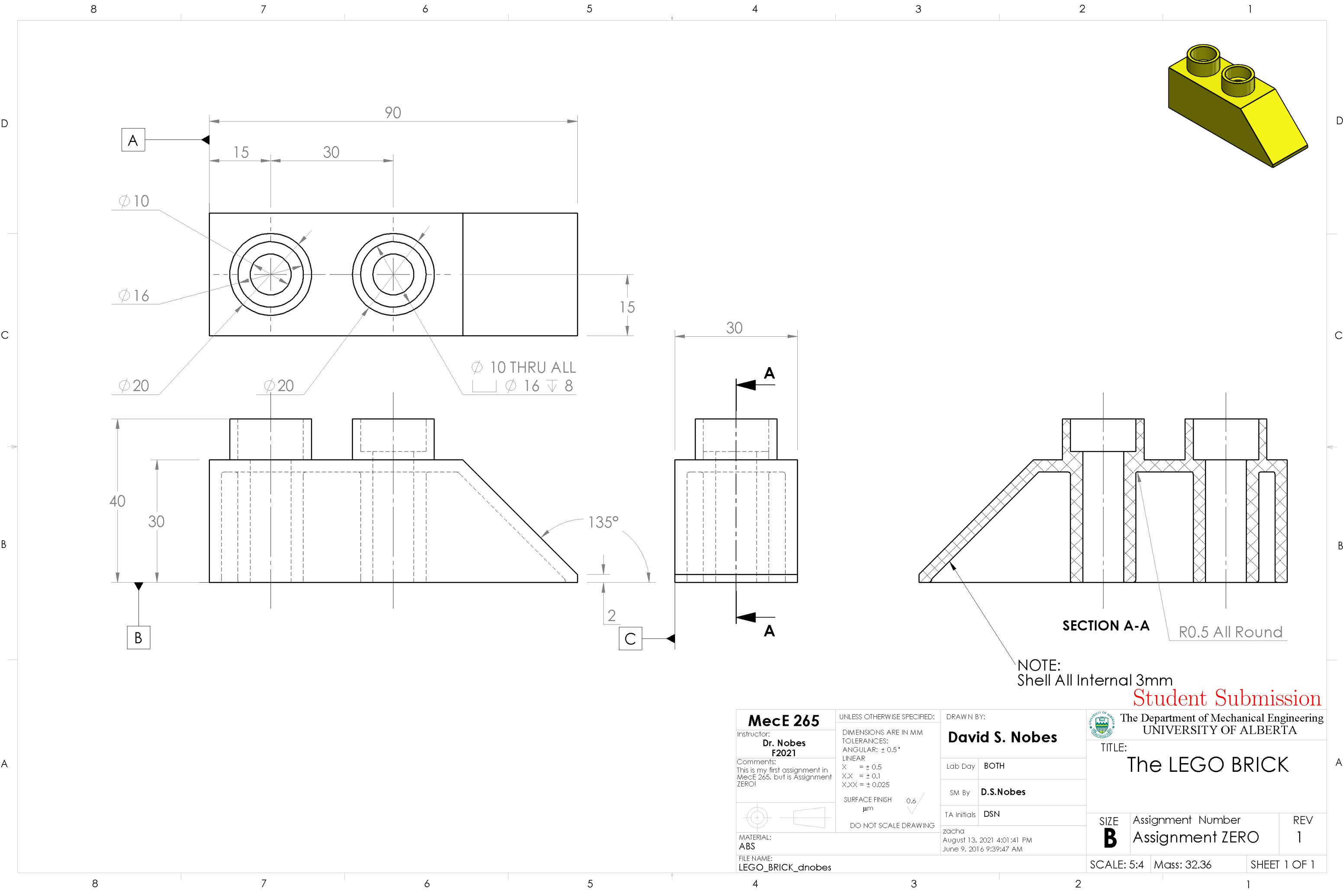
AutoMARK details:

- 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

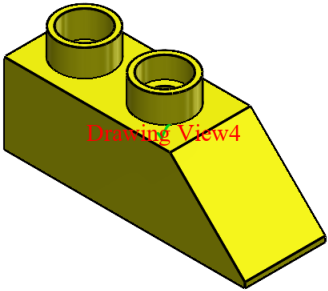


NOTE:  
Shell All Internal 3mm

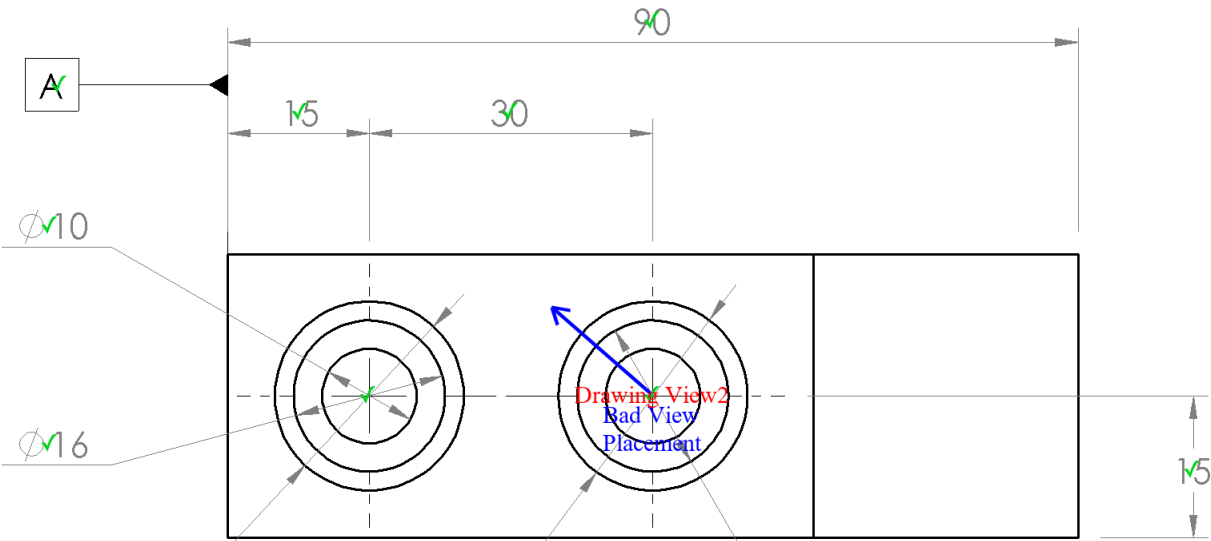
Student Submission

<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><div>SURFACE FINISH μm</div><div>0.6</div></div> <div>DO NOT SCALE DRAWING</div>		<div>DRAWN BY:</div> <div>David S. Nobes</div> <table><tr><td>Lab Day</td><td>BOTH</td></tr><tr><td>SM By</td><td>D.S.Nobes</td></tr><tr><td>TA Initials</td><td>DSN</td></tr></table> <div>zacha August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM</div>		Lab Day	BOTH	SM By	D.S.Nobes	TA Initials	DSN	<div>The Department of Mechanical Engineering UNIVERSITY OF ALBERTA</div> <div>TITLE: The LEGO BRICK</div> <table><tr><td>SIZE B</td><td>Assignment Number Assignment ZERO</td><td>REV 1</td></tr><tr><td colspan="2">SCALE: 5:4</td><td>Mass: 32.36</td></tr><tr><td colspan="2"></td><td>SHEET 1 OF 1</td></tr></table>		SIZE B	Assignment Number Assignment ZERO	REV 1	SCALE: 5:4		Mass: 32.36			SHEET 1 OF 1
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		SHEET 1 OF 1																				

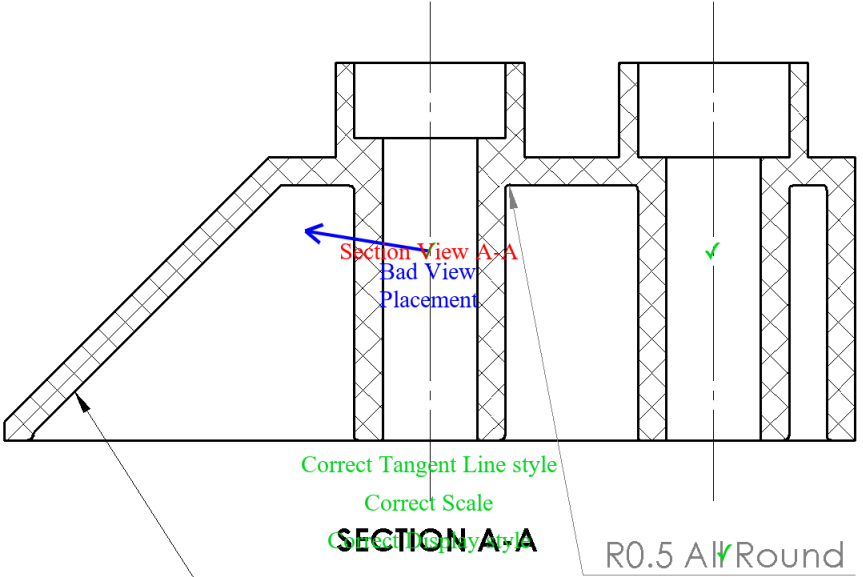
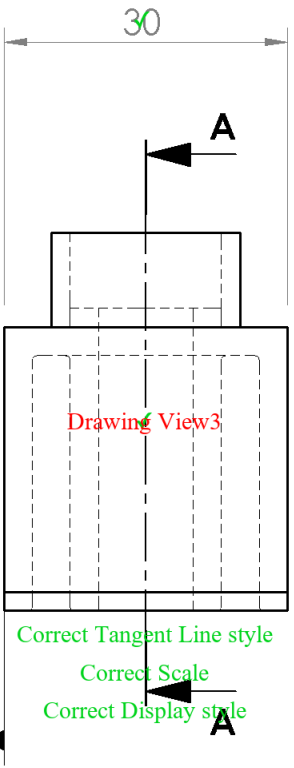
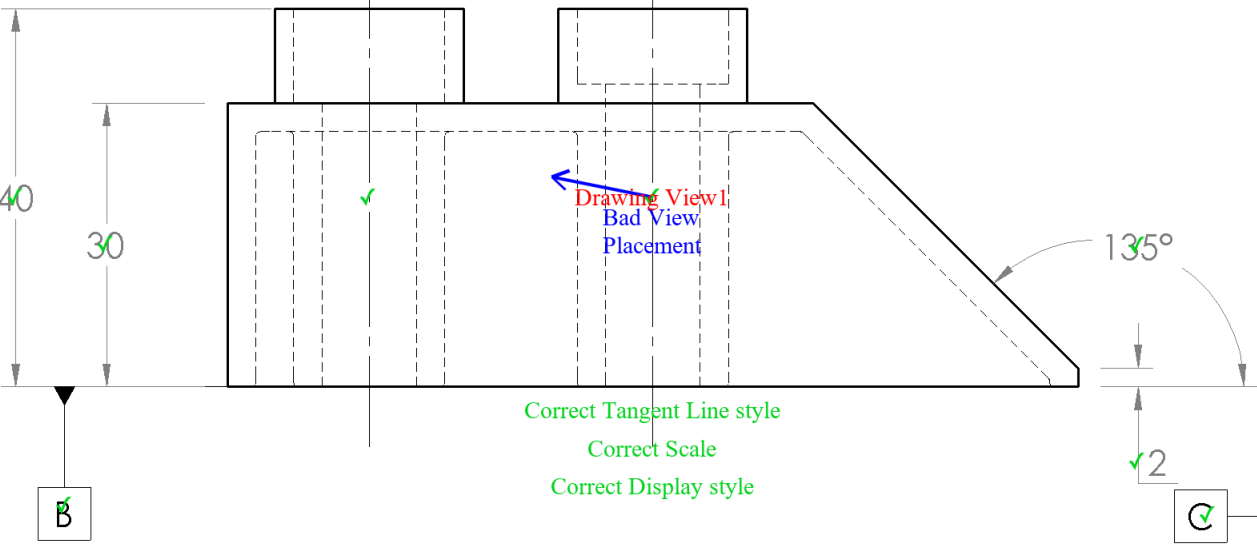
Drawing View1: 47/53  
Drawing View2: 76/82  
Drawing View3: 32/32  
Drawing View4: 22/22  
Section View A-A: 29/35  
SHEET TOTAL: 255/273





Correct Tangent Line style  
Correct Scale  
Correct Display style

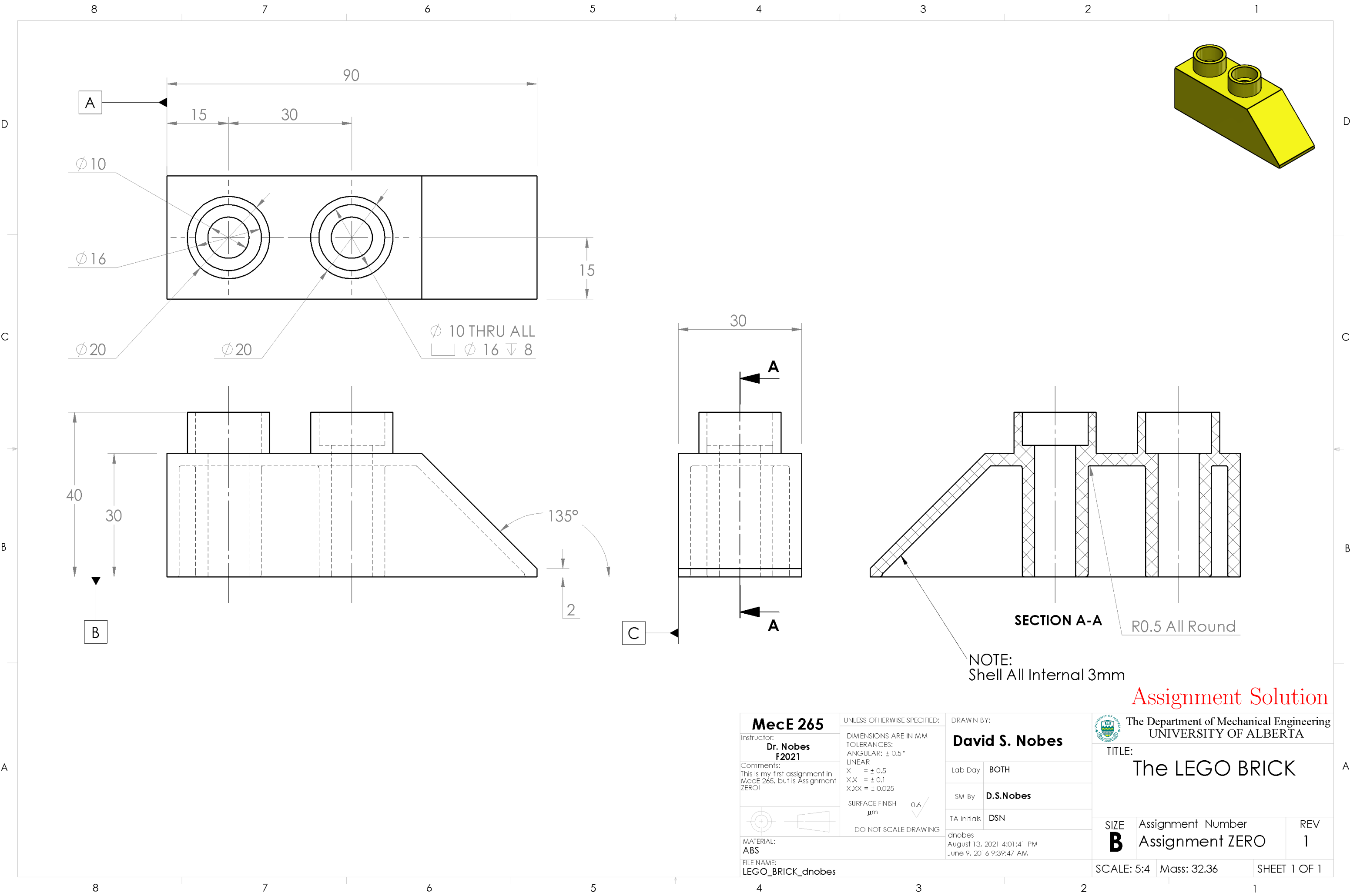


Ø 10 THRU ALL  
Ø 16  
8





NOTE:  
Shell All Internal 3mm  
Automark of Student Submission

<b>MecE 265</b>		UNLESS OTHERWISE SPECIFIED:		DRAWN BY:		 <div>The Department of Mechanical Engineering UNIVERSITY OF ALBERTA</div>	
Instructor: <b>Dr. Nobes</b> <b>F2021</b>		DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: $\pm 0.5^\circ$ LINEAR X = $\pm 0.5$ X.X = $\pm 0.1$ X.XX = $\pm 0.025$		<b>David S. Nobes</b>			
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		DO NOT SCALE DRAWING		SM By	D.S.Nobes		
				TA Initials	DSN		
				zacha August 13, 2021 4:01:41 PM June 9, 2016 9:39:47 AM			
MATERIAL: ABS				SIZE <b>B</b>	Assignment Number Assignment ZERO		REV 1
FILE NAME: LEGO_BRICK_dnobes				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_dnobs</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>dnobs 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>
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