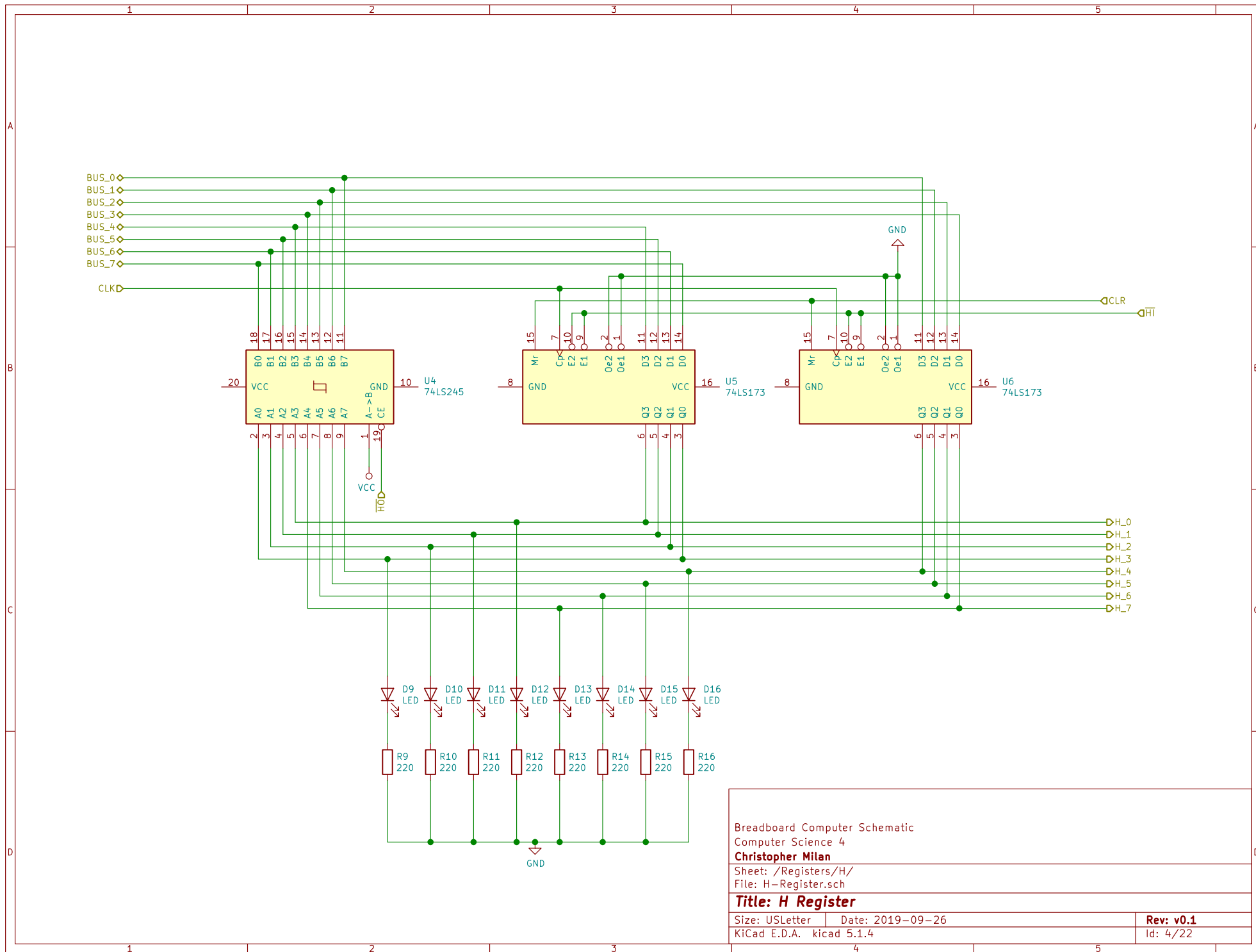


Breadboard Computer Schematic
Computer Science 4
Christopher Milan
Sheet: /Registers/
File: Register.sch

Title: Register Block

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. | kicad 5.1.4

Rev: v0.1
Id: 2/22

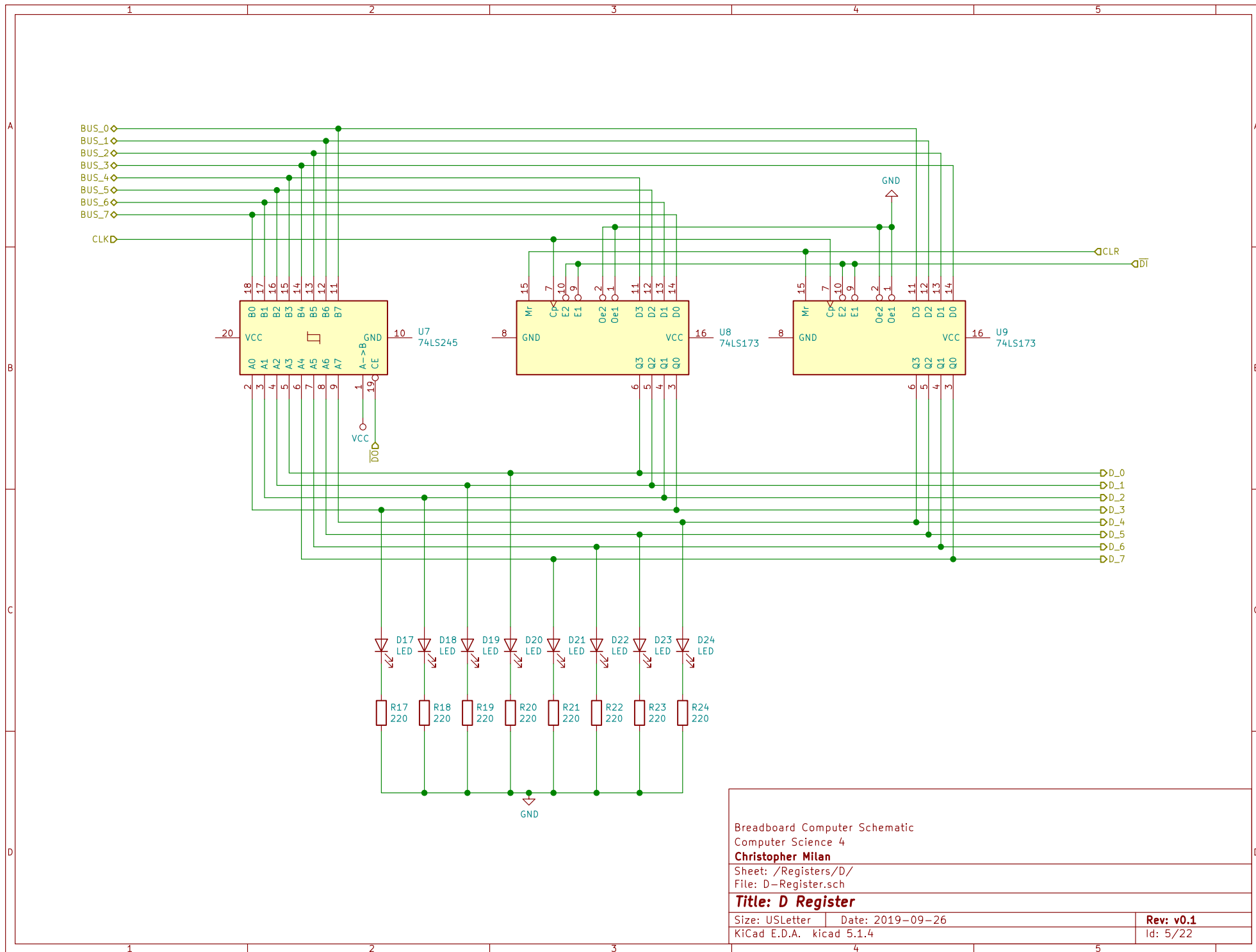


Breadboard Computer Schematic
Computer Science 4
Christopher Milan
Sheet: /Registers/H/
File: H-Register.sch

Title: H Register

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. | kicad 5.1.4

Rev: v0.1
Id: 4/22



Breadboard Computer Schematic
Computer Science 4

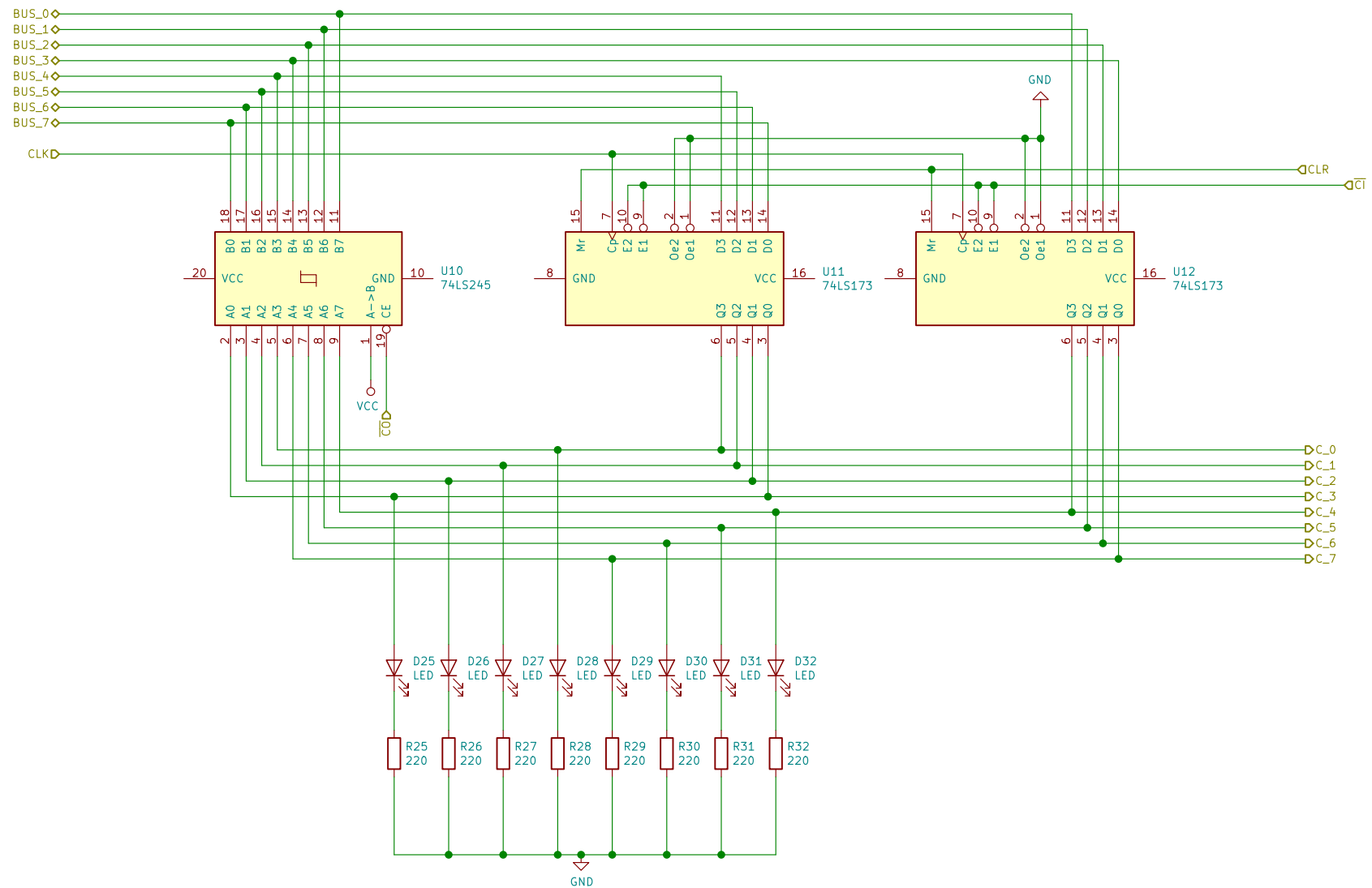
Christopher Milan

Sheet: /Registers/D/
File: D-Register.sch

Title: D Register

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 5/22



Breadboard Computer Schematic
Computer Science 4

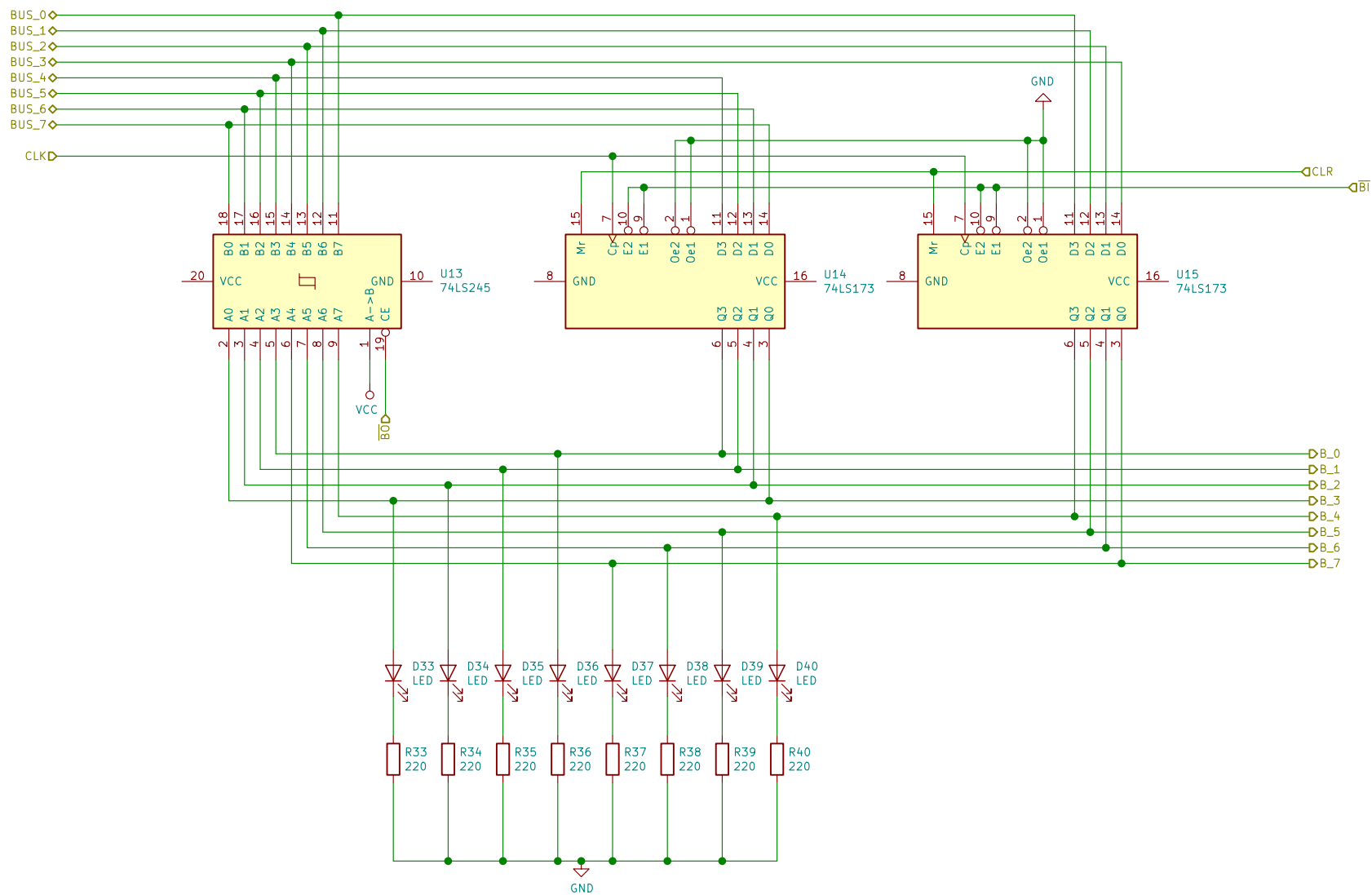
Christopher Milan

Sheet: /Registers/C/
File: C-Register.sch

Title: C Register

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

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Breadboard Computer Schematic
Computer Science 4

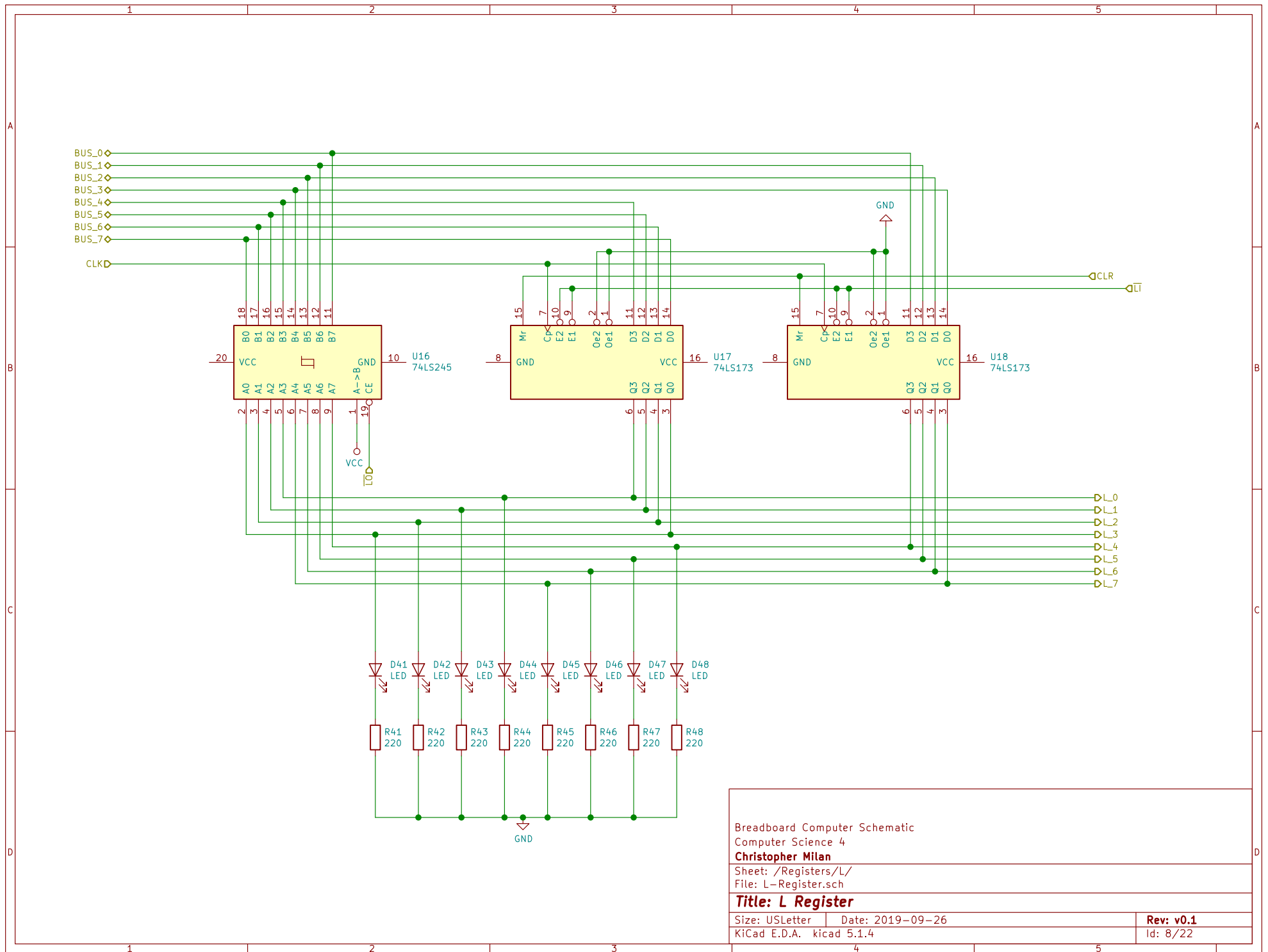
Christopher Milan

Sheet: /Registers/B/
File: B-Register.sch

Title: B Register

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

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Breadboard Computer Schematic
Computer Science 4

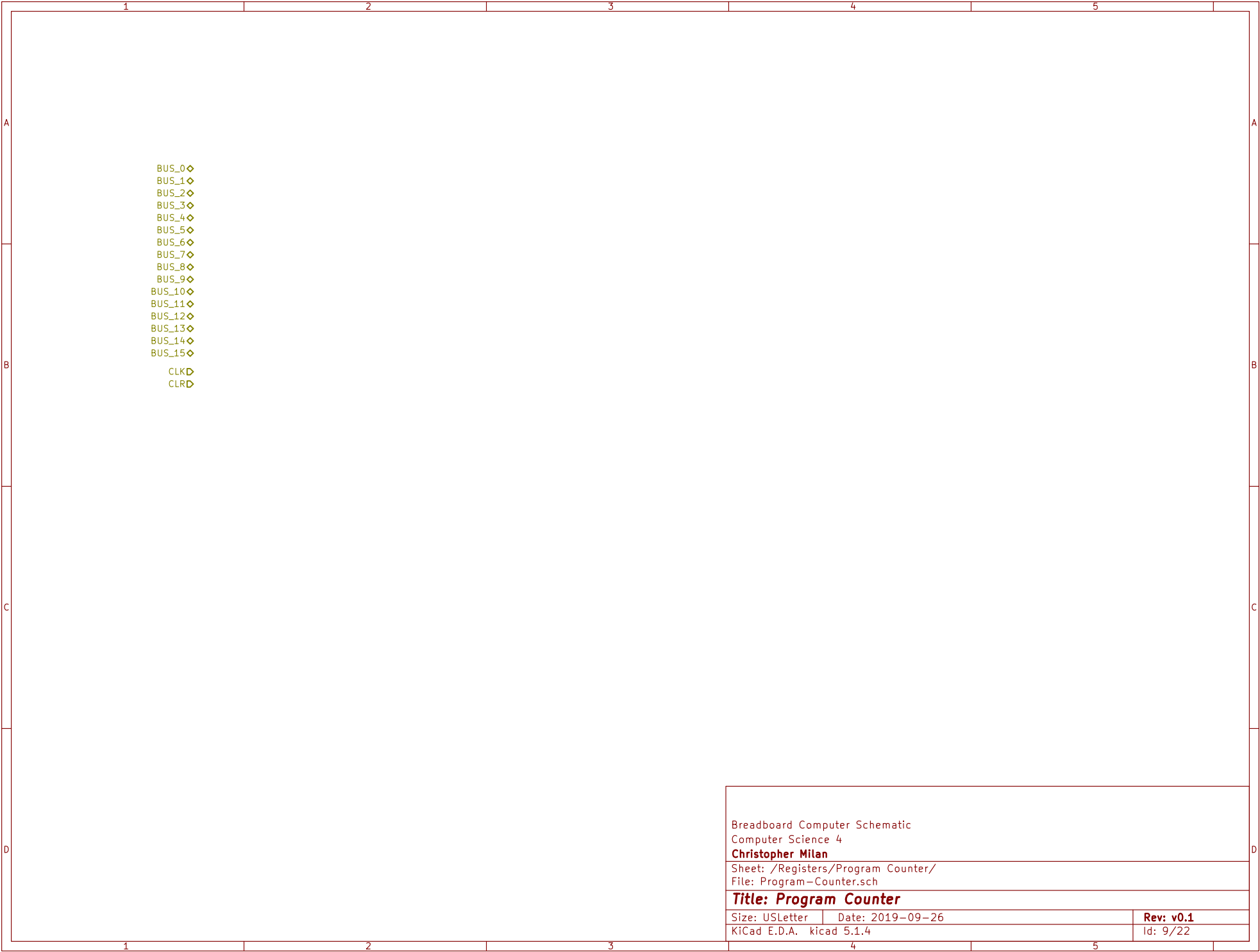
Christopher Milan

Sheet: /Registers/L/
File: L-Register.sch

Title: L Register

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

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Id: 8/22



BUS_0◇
BUS_1◇
BUS_2◇
BUS_3◇
BUS_4◇
BUS_5◇
BUS_6◇
BUS_7◇
BUS_8◇
BUS_9◇
BUS_10◇
BUS_11◇
BUS_12◇
BUS_13◇
BUS_14◇
BUS_15◇
CLK◇
CLR◇

Breadboard Computer Schematic
Computer Science 4

Christopher Milan

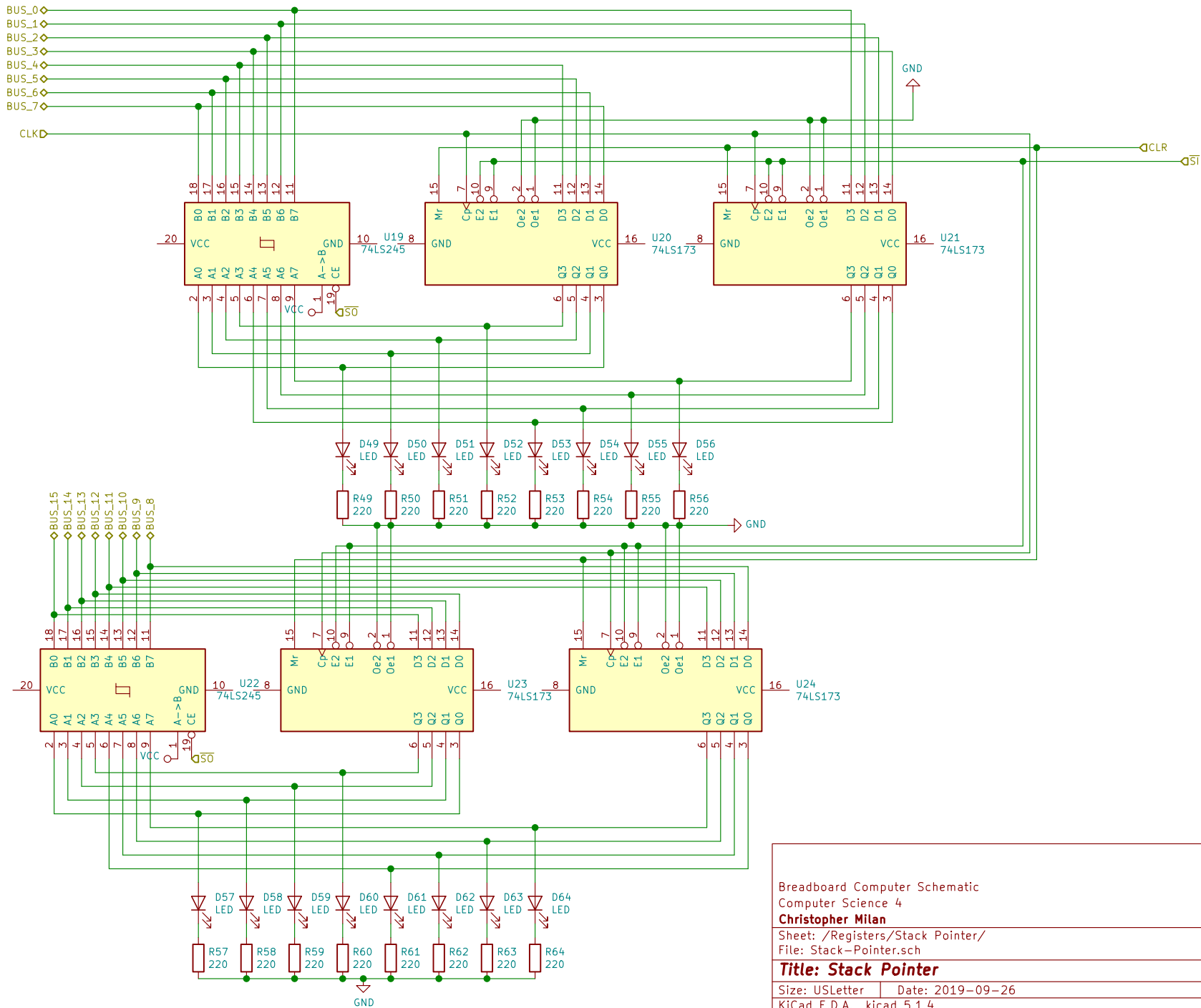
Sheet: /Registers/Program Counter/
File: Program-Counter.sch

Title: Program Counter

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 9/22

Note: Stack pointer should not reset to 00000 and INC and DEC logic should be added for PUSH and POP instructions.



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Computer Science 4

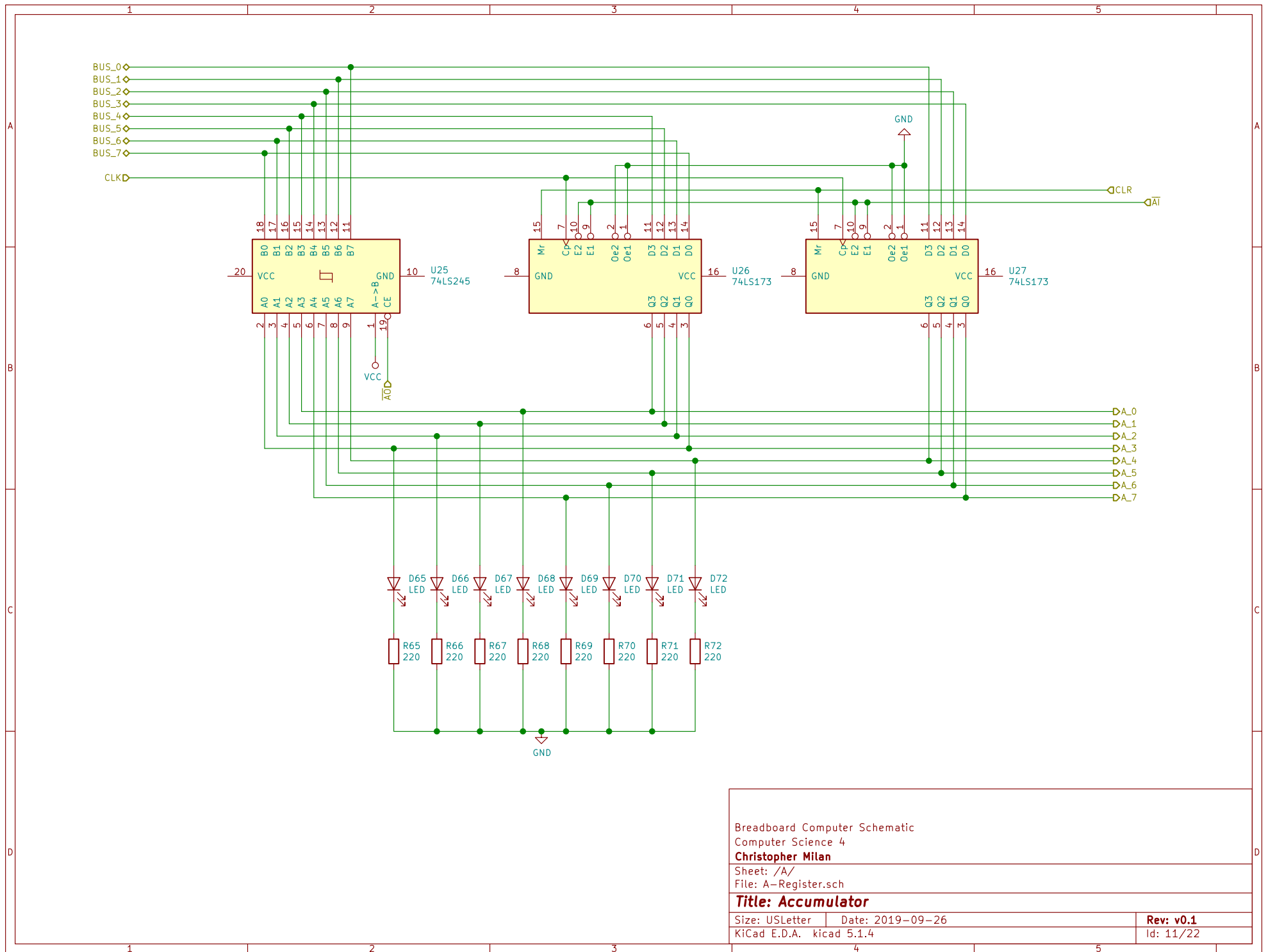
Christopher Milan

Sheet: /Registers/Stack Pointer/
File: Stack-Pointer.sch

Title: Stack Pointer

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 10/22



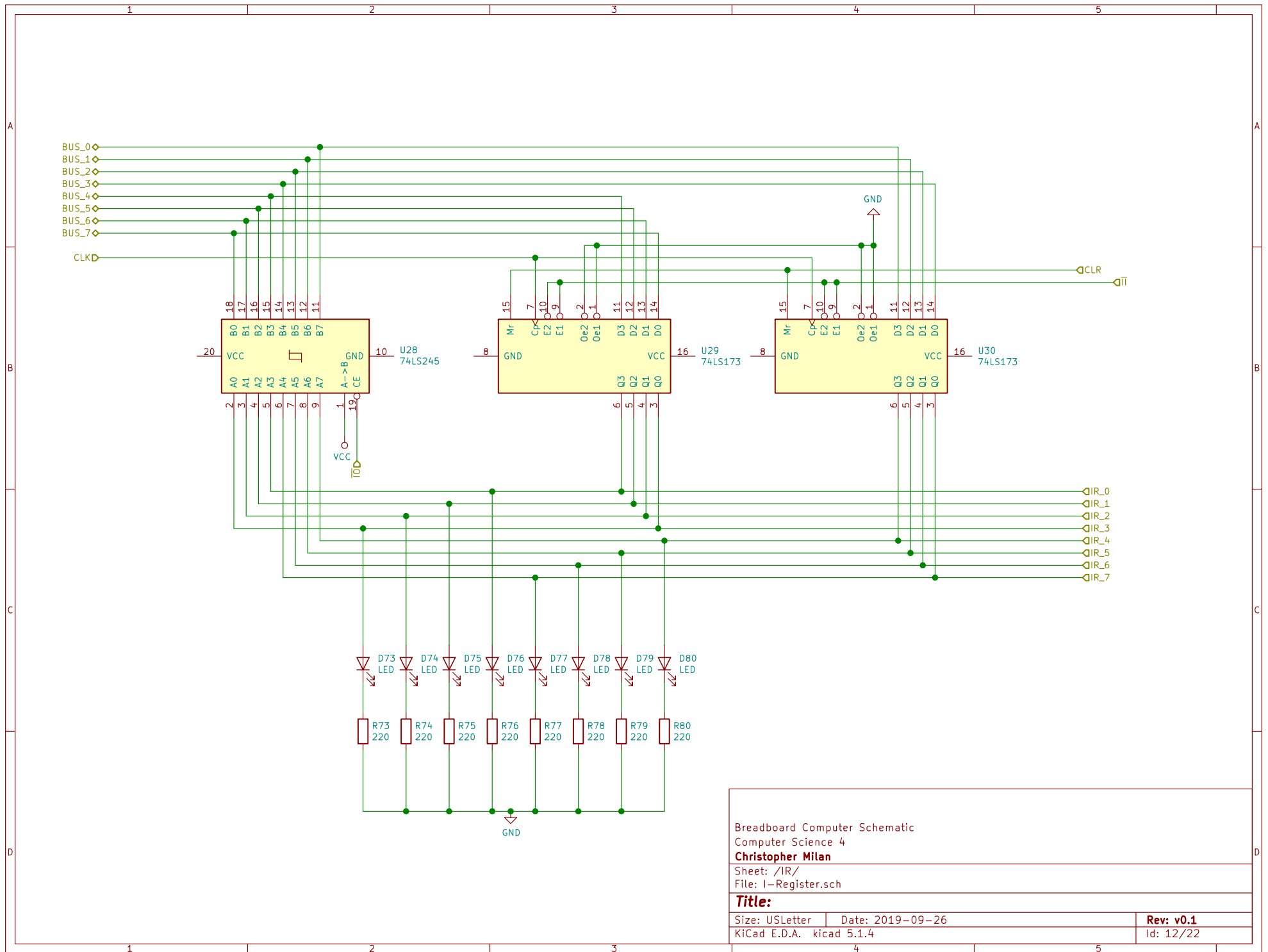
Breadboard Computer Schematic
Computer Science 4
Christopher Milan

Sheet: /A/
File: A-Register.sch

Title: Accumulator

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 11/22



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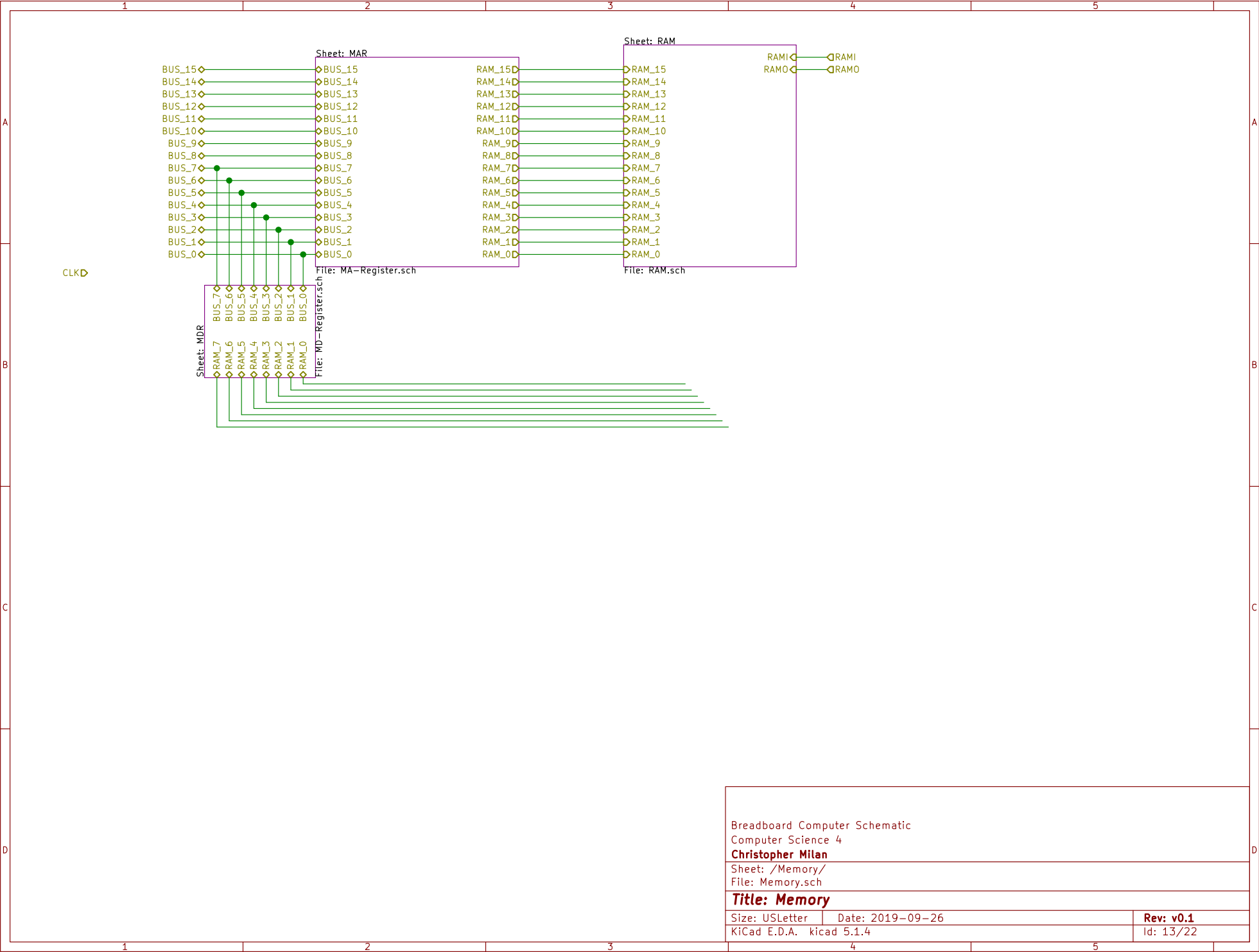
Christopher Milan

Sheet: //IR//
File: I-Register.sch

Title:

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 12/22



Breadboard Computer Schematic
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Sheet: /Memory/
File: Memory.sch

Title: Memory

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 13/22



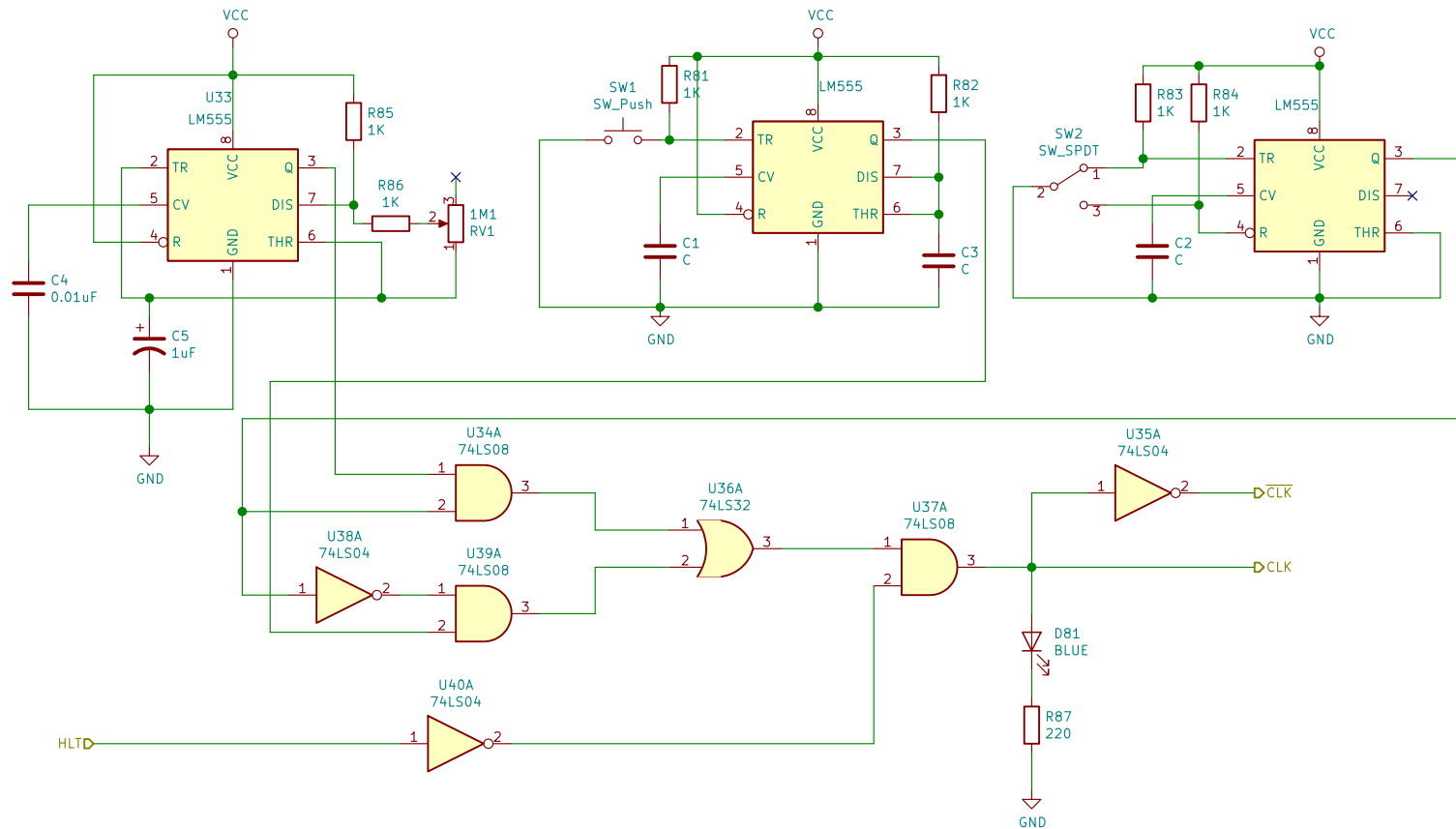


BUS_0◀
BUS_1◀
BUS_2◀
BUS_3◀
BUS_4◀
BUS_5◀
BUS_6◀
BUS_7◀

RAM_0◊
RAM_1◊
RAM_2◊
RAM_3◊
RAM_4◊
RAM_5◊
RAM_6◊
RAM_7◊

Breadboard Computer Schematic		
Computer Science 4		
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Sheet: /Memory/MDR/		
File: MD-Register.sch		
Title:		
Size: A4	Date: 2019-09-26	Rev: v0.1
KiCad E.D.A. kicad 5.1.4		Id: 15/22

Id: 16/22



Breadboard Computer Schematic
Computer Science 4

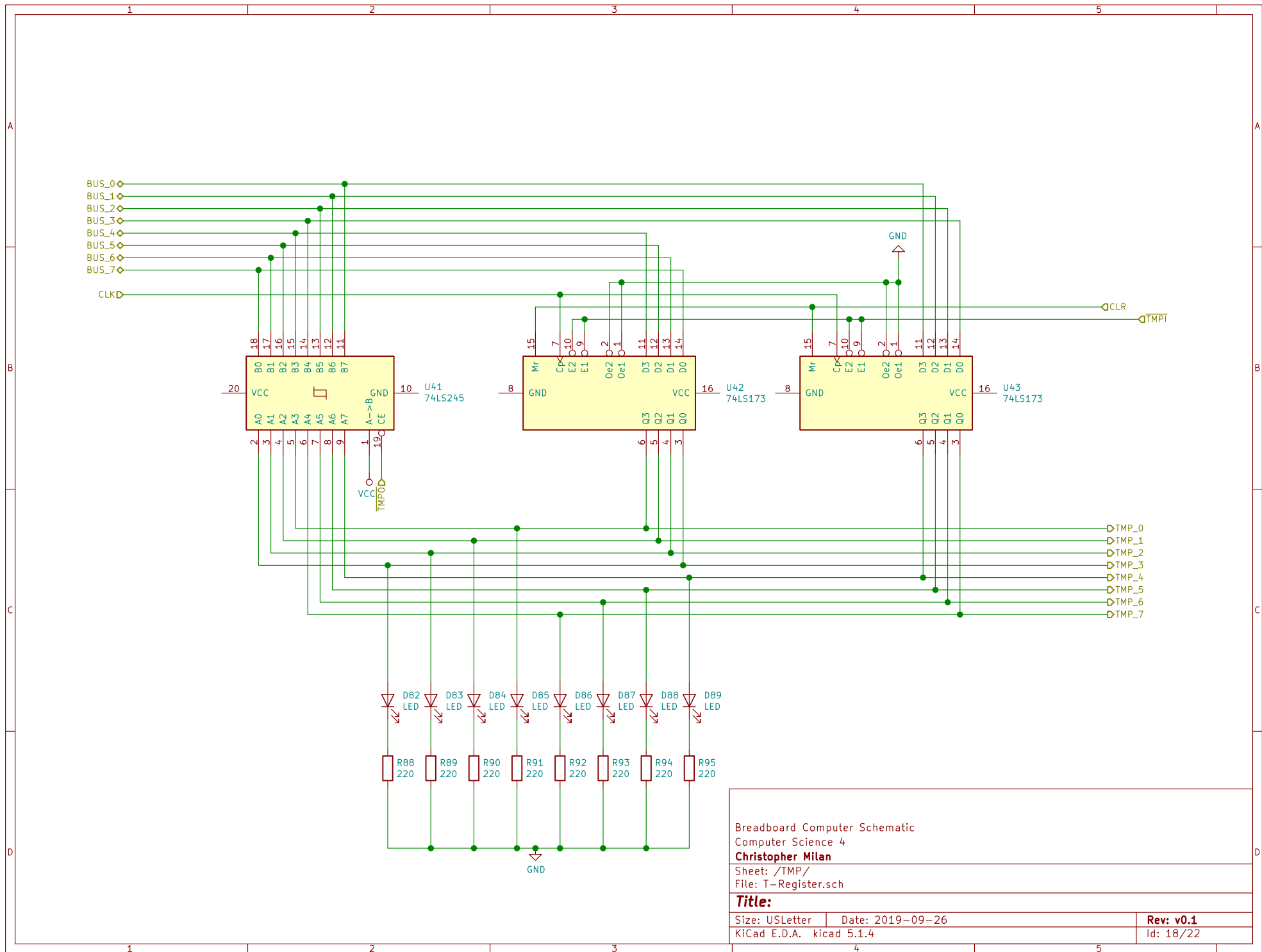
Christopher Milan

Sheet: /Clock/
File: clock.sch

Title: Clock

Size: USLetter Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 17/22



Breadboard Computer Schematic
Computer Science 4

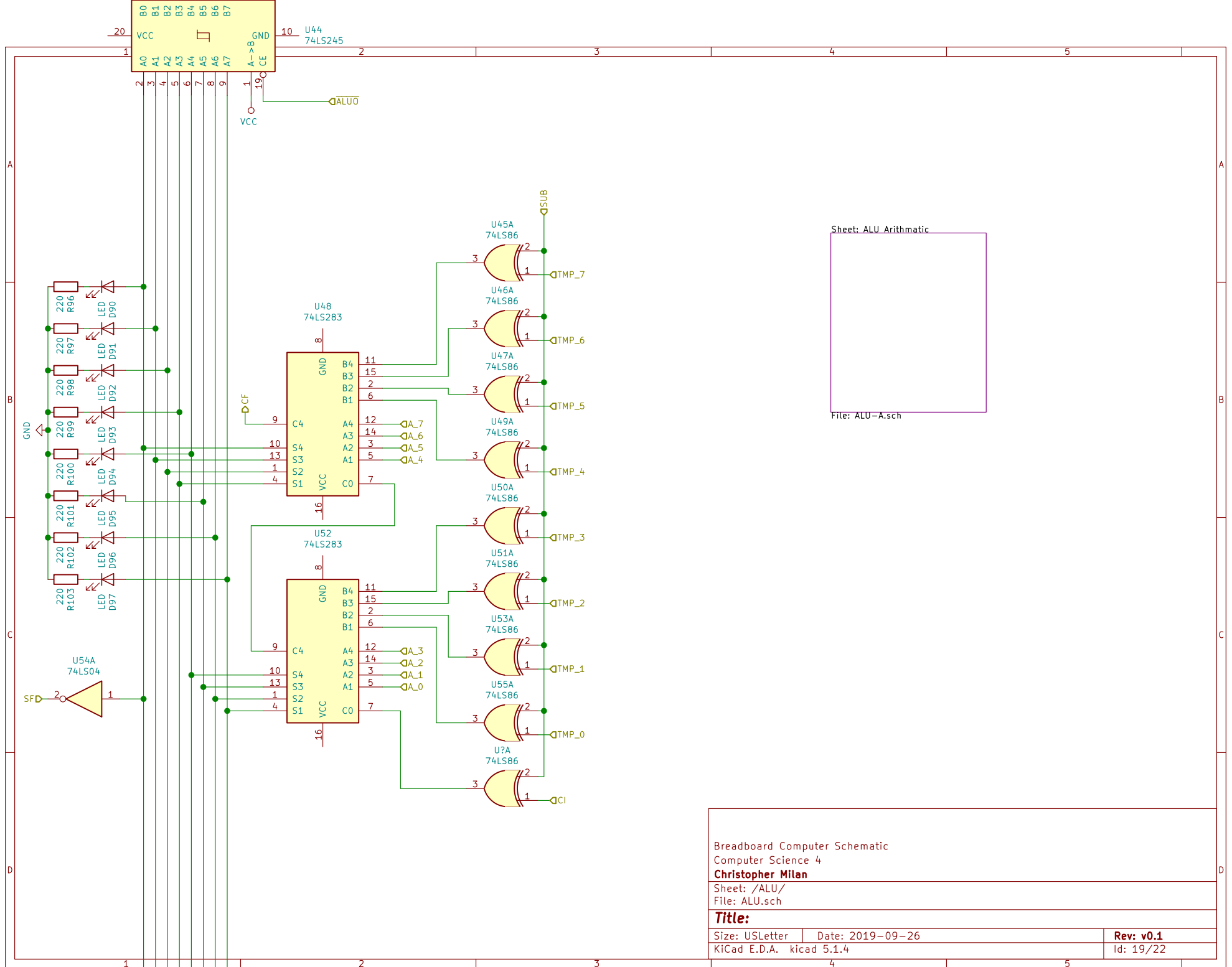
Christopher Milan

Sheet: /TMP/
File: T-Register.sch

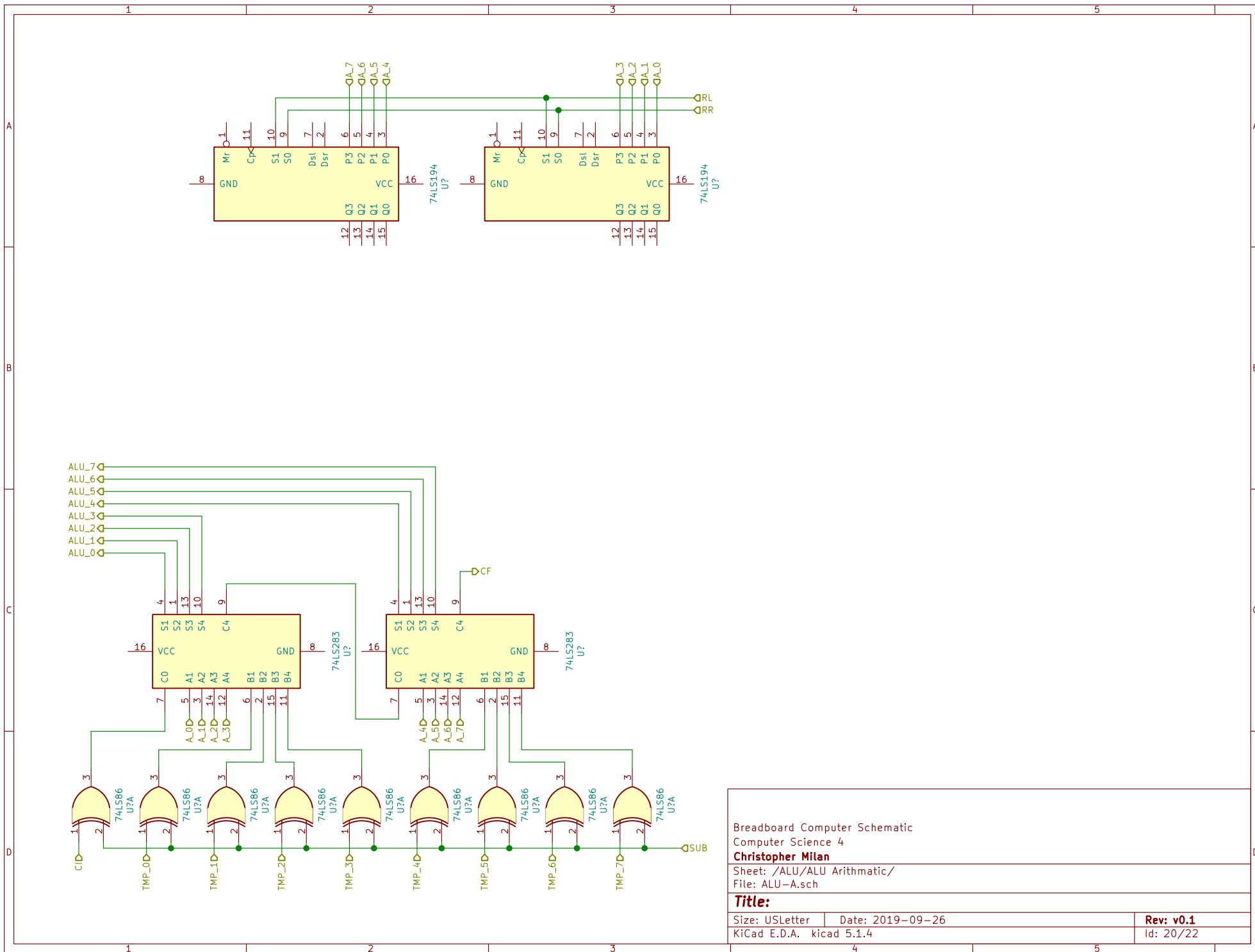
Title:

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 18/22



Breadboard Computer Schematic		
Computer Science 4		
Christopher Milan		
Sheet: /ALU/		
File: ALU.sch		
Title:		
Size: USLetter	Date: 2019-09-26	Rev: v0.1
KiCad E.D.A. kicad 5.1.4		Id: 19/22



Breadboard Computer Schematic
Computer Science 4
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Sheet: /ALU/ALU Arithmetic/
File: ALU-A.sch

Title:

Size: USLetter | Date: 2019-09-26
KiCad E.D.A. kicad 5.1.4

Rev: v0.1
Id: 20/22



Rev: v0.1
Id: 22/22