

Project in Automation in Complex Systems (EIEN35)

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Conveyor system (1)



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Conveyor system (2)



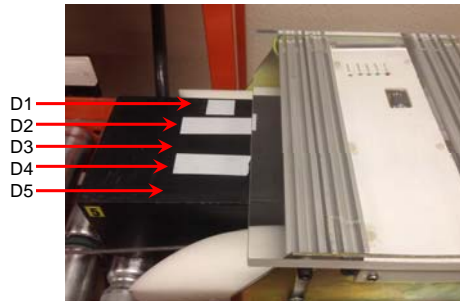
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Project Task

- 5 objects on upper conveyer
- Identification number on each object
- **Goal:** sort jobs – ascending order from right to left
- Task is done when all jobs are sorted and back on upper conveyor (to the left of B2)
- **Condition:**
 - Initial sequence of job numbers is unknown.
 - Jobs must not go through the block reader (D1-D5) from the right.

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Bar Code Enumeration (1)



D5 D4 D3 D2

0 1 0 1

5

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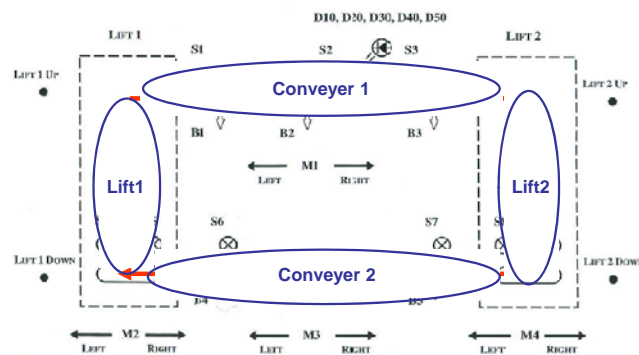
Bar Code Enumeration (2)



Integers: 0-15

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Process



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Project Outline (1)

Week	M	T	W	Th	F
12 (19-23 Mar)			PROJECT INTRODUCTION		
13 (26-30 Mar)			SUPERVISOR DISCUSSION 1 (PROJECT PLAN)		
Week 14-15: Easter Holidays					
16 (16-20 Apr)					
17 (23-27 Apr)			MILESTONE 1/LAB OPEN FOR TESTING		
18 (30 Apr- 4 May)					
19 (7-11 Apr)			SUPERVISOR DISCUSSION 2 (PROGRESS REPORT)		
20 (14-18 May)					
21 (21-25 May)	FINAL DEMO		PROJECT DISCUSSION		

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Project Outline (2)

- **Supervisor discussion 1/Project plan (at RS' office)**
 - (1-2 pages) Division of work, timetable with goals, scheduled work hours
- **Supervisor discussion 2/Status report (in the lab)**
 - Basic program functions and structure; optimization
 - (1 page) Current status of work, what is finished, what is left to do
- **Final report**
 - (3-4 pages) Summary, method, program structure, challenges, etc.
- **Final presentation**
 - Practical demonstration
 - (5-10 minutes) Presentation

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Lab Facilities

- **Lab 1 open "24/7" but:**
 - Keep it clean
 - Lock door and windows
 - Venetian blinds shut when you leave
- **6 computers**
- **Process operation only with supervisor present (personal safety)**
- **Group computer accounts (laksXX)**

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Some useful hints

- Make a time schedule for the group
- Read the online help
- You can use the program from AUT-Lab2 if you want

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GOOD LUCK!

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