

Project work – Separating Workpieces using Machine Vision

Project Title: Separating Workpieces using Machine Vision		Institution ID: MEI-110/2024
Project Aim: The aim of this project work is to implement a simple robot (type: RV-3SB) and camera (type: COGNEX) program to separate different shape workpieces using machine vision.		
Supervisor:	Varga Bence	
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Group: (min./max.):	3-5 person <i>without the minimal requirement (3person) the project is not starting</i>	
Preliminary Requirements:	<i>Robot programming skills (Completing subject: Industrial Robot's Programming and Simulation)</i>	
Scheduling:	1.-2. week	Get in touch with the supervisor, forming the project group.
	3.-4. week	Research about the available system components (robot, camera etc.)
	5.-6. week	Some preliminary design of the system (functions, communication between system components), simple block diagram.
	7.-9. week	Program design for the camera and the robot.
	10.-13. week	Implementing communication between system components. Testing.
	14.-15. week	Documentation: <ul style="list-style-type: none"> • Schematics • Program documentation • Short description of the implemented system.
Note: <ul style="list-style-type: none"> • <i>Application in the NEPTUN system.</i> 		