

Introduction to Mechatronics

Part 1

What is "Mechatronics"



Smart devices



Fridge



Microwave



Coffee machine

Smart devices



Washing machine



Lawnmowing robot

Smart devices



Escalator



Subway

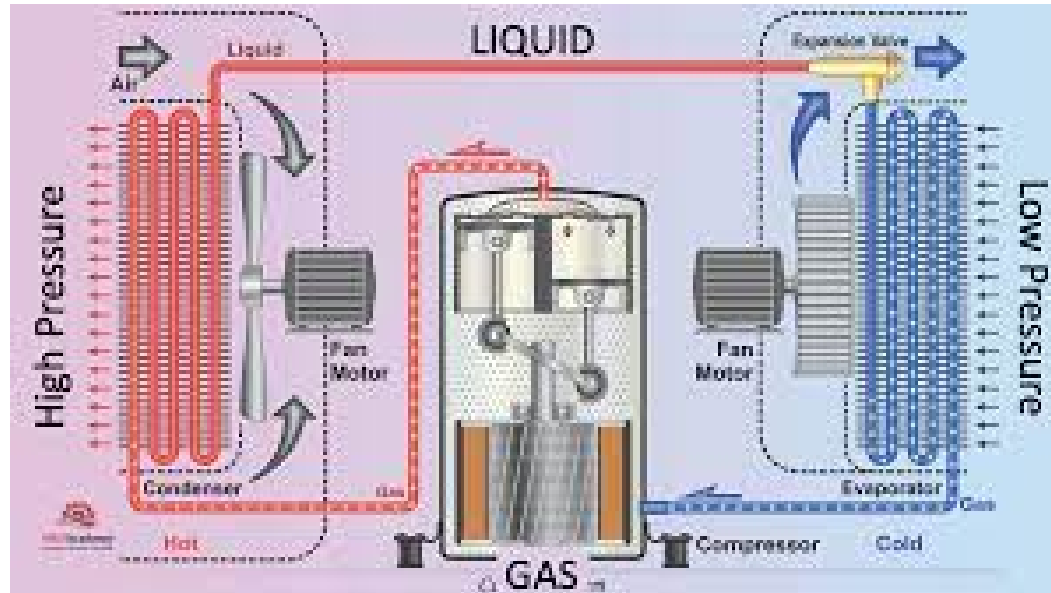
Smart devices



Overhead crane



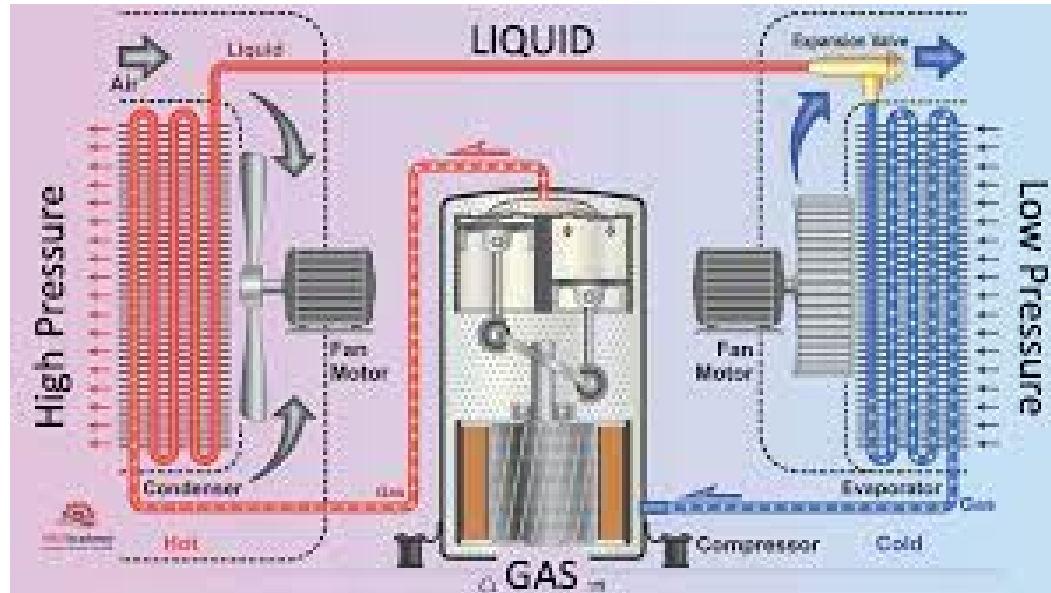
Machine tools



Functional diagram of refrigerator



Manually operated electric forklift



Functional diagram of refrigerator



Manually operated electric forklift

**Mechanical
equipment**



Actuator



**Control
system**



**Mechatronic
system**



**Mechanical
equipment**



Actuator



**Control
system**



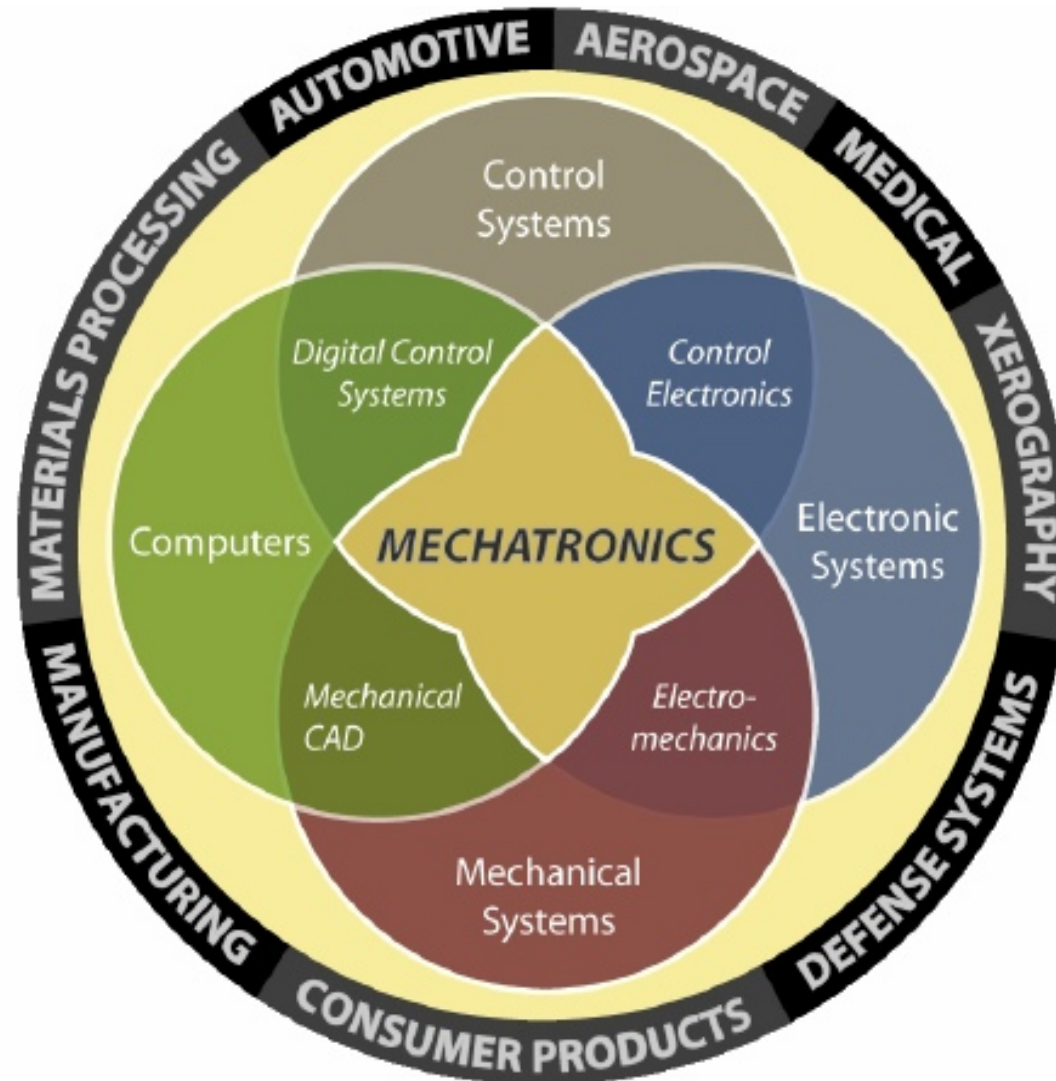
**Mechatronic
system**



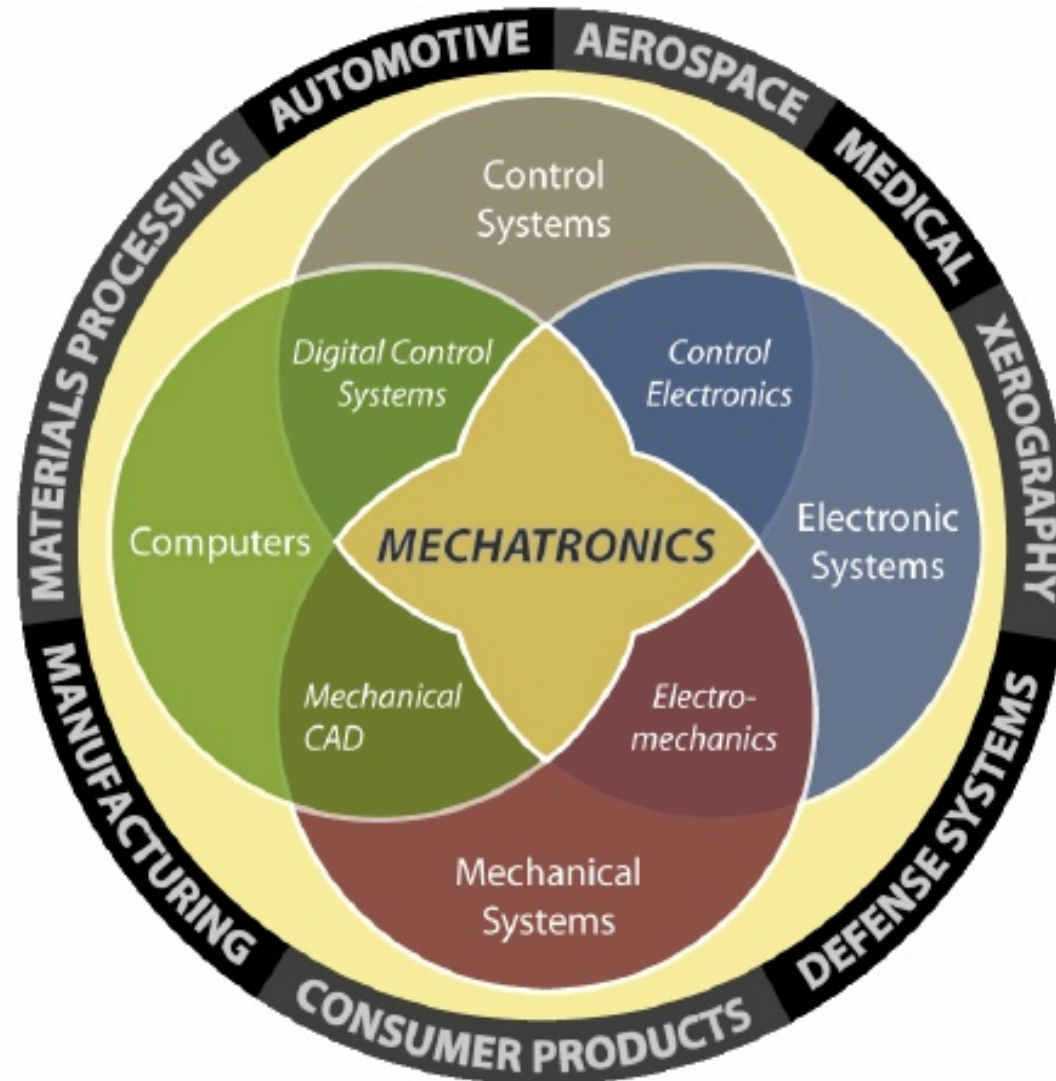
Mechanisms**Electronics****Mechatronics**

Tetsuro Mori, a senior engineer for Yaskawa Electric Corporation. 1969

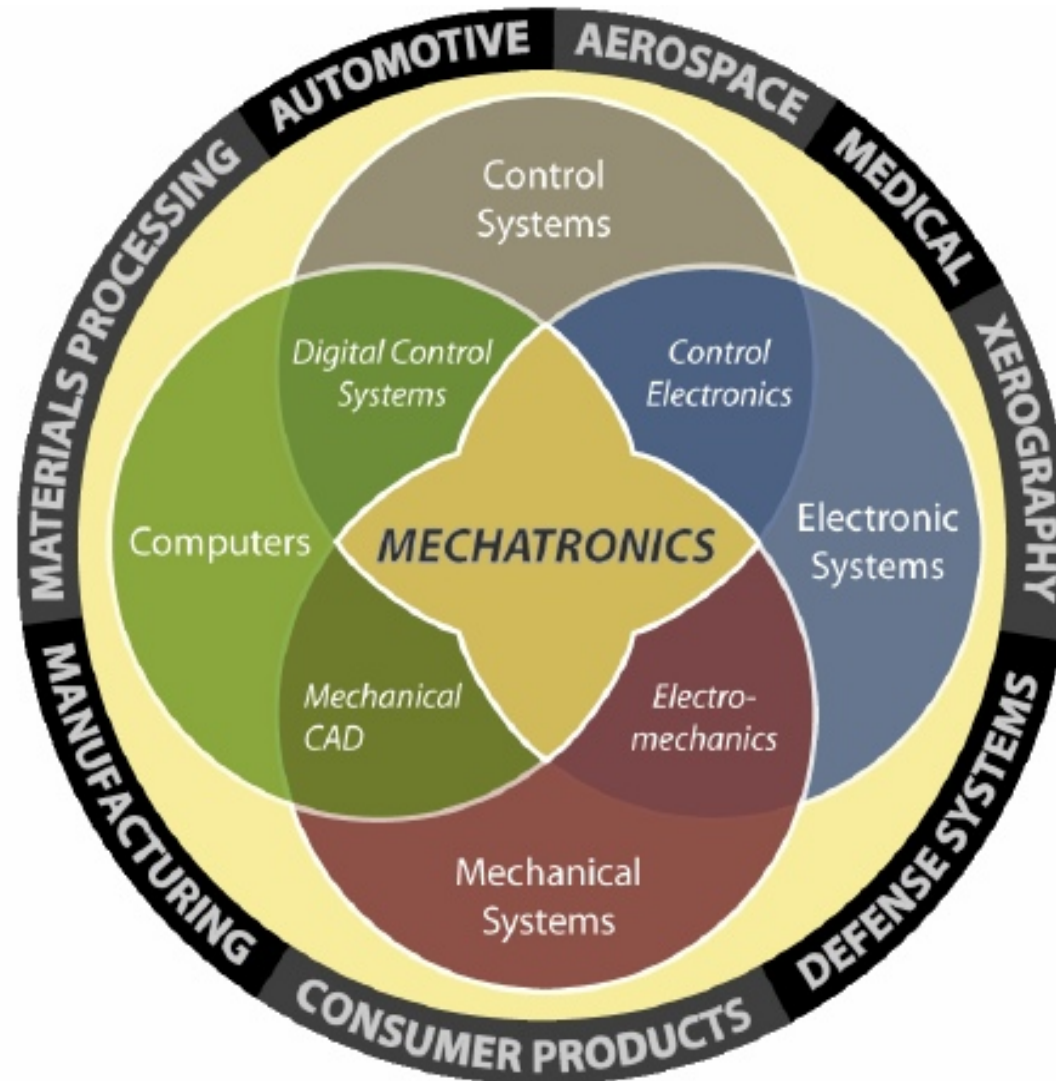
Mechatronics ~ Integration



Mechatronics ~ Integration



Mechatronics ~ Integration



End of the part 1