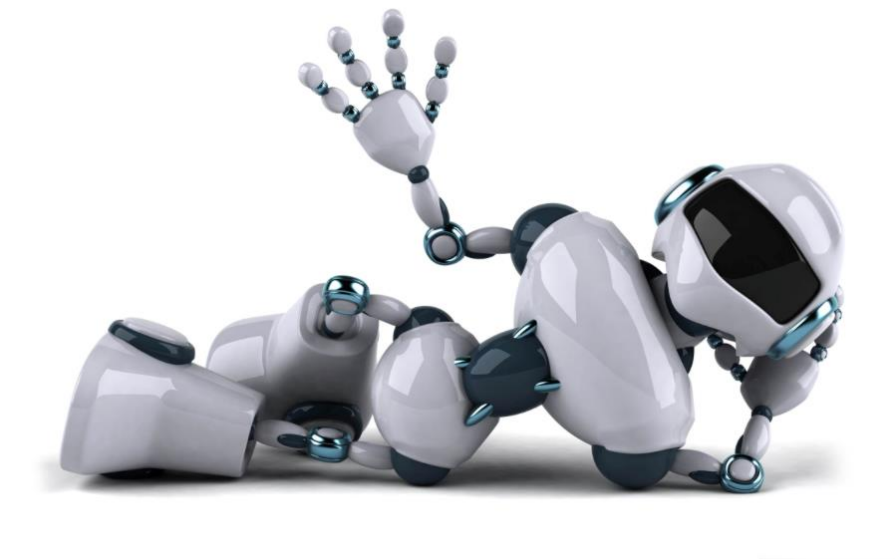
RBE 1001
Intro to Robotics



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WORCESTER POLYTECHNIC INSTITUTE 1865 WPI

Any questions?

Who are you?

Who am I?


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Greg Lewin
85 Prescott, 202A

but I'll generally hold office hours in AK 122 or the Robotics Lab

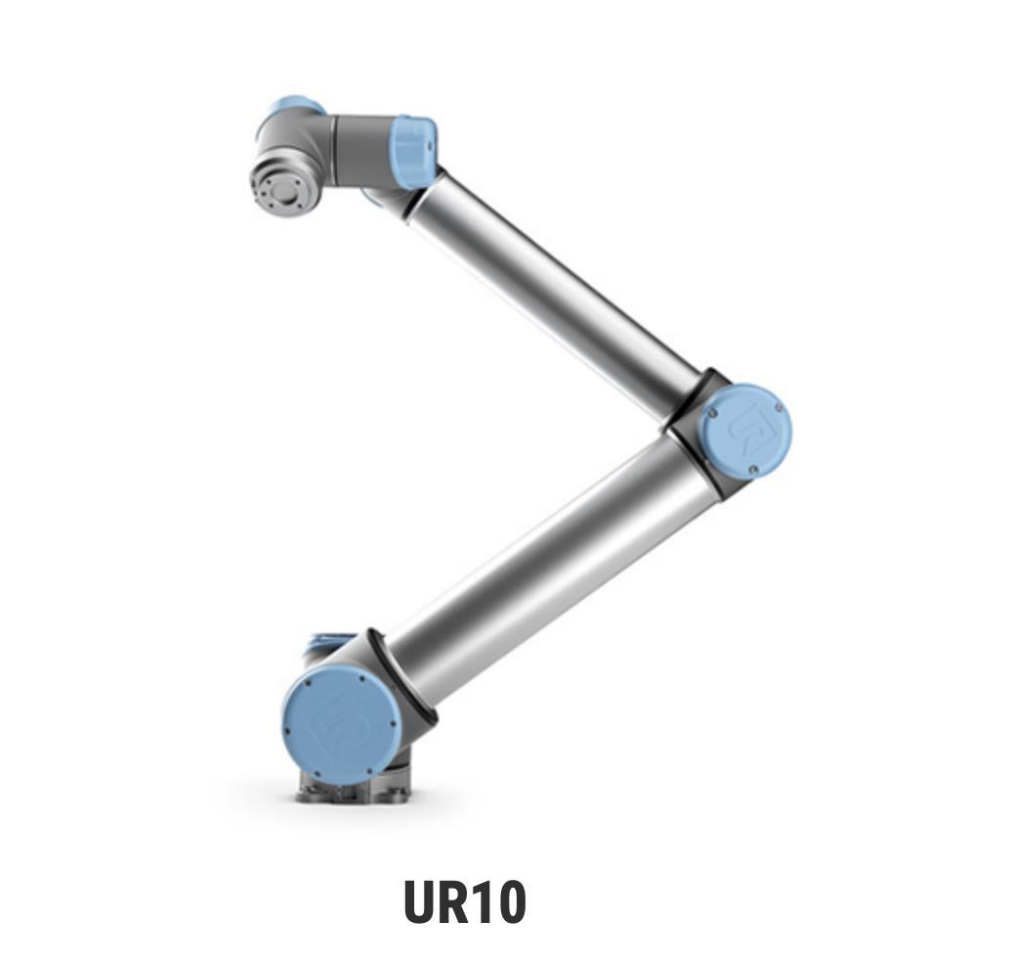
Who are these other nice people?

What do you want to get out of this class?

What is a robot?

What do robots do? What are they used for?

Is this a robot? What is it used for?



Is this a robot?

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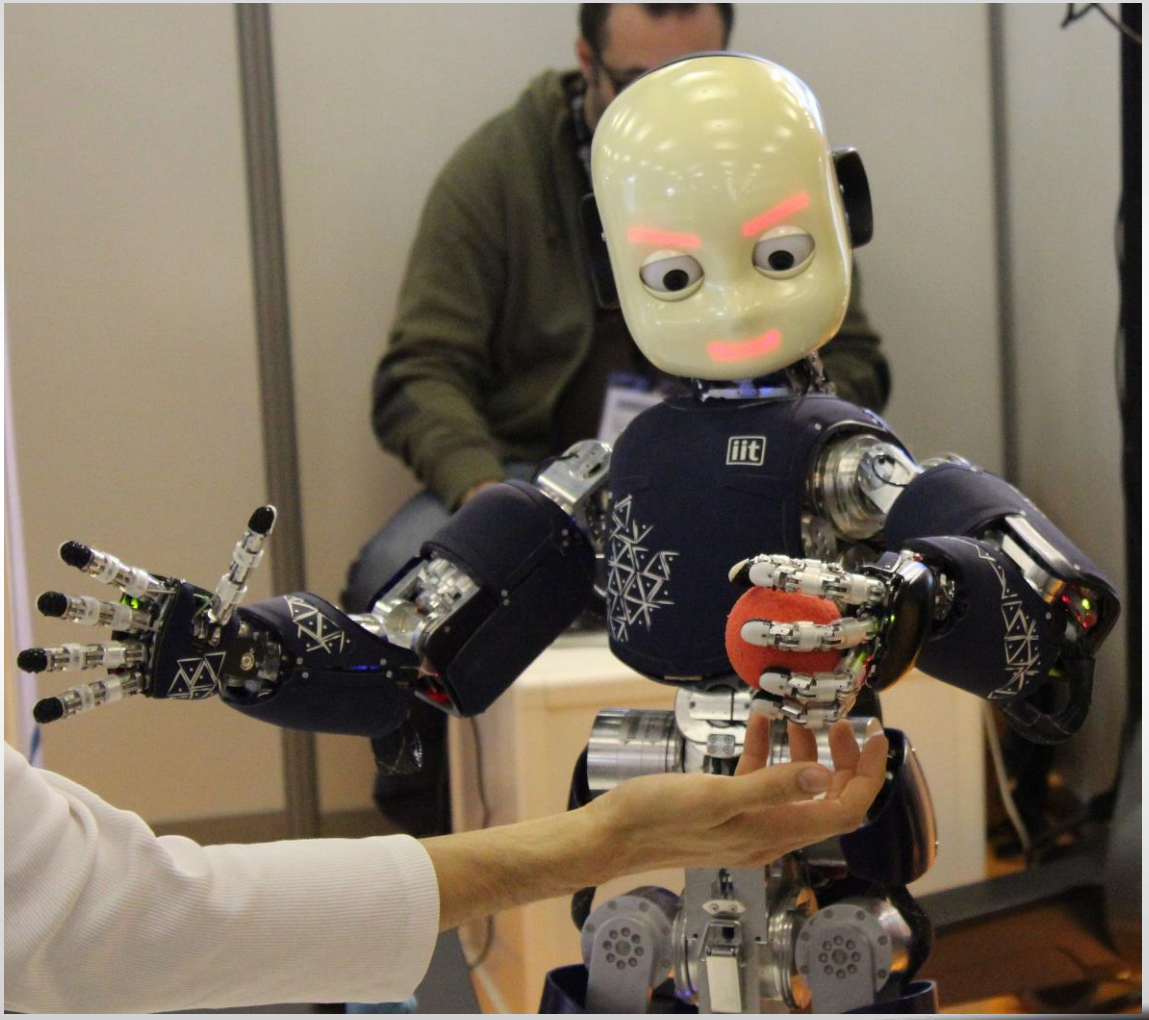

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Is this a robot?

What are the essential qualities of a robot? What makes a robot different from an “electromechanical system”?

What goes into a robot? What is it made of? What components, subsystems?

What goes into a robot?

What goes into *building* a robot?
What does the engineer do?

What goes into *building* a robot?

What *I* think you should get out of this class

- An introduction to the disciplines that constitute “robotics”
- What it takes to *build* a robot

RBE > ECE + ME + CS (+ SE)

- It's one thing to understand all the technical details, but...
- Someone has to put all of the pieces together to make a working system
  - Define functionality
  - Integrate the pieces
  - Test the system

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Course Philosophy

- **You all come in with different skillsets**
- **I can't possibly teach you every bit about every discipline in robotics (well, not in seven weeks, anyway...)**
- **You will have several self-directed exercises to cover the basic concepts**
- **That way, we can spend valuable class time *applying* those concepts to robotics!**

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To do

- **https://canvas.wpi.edu/calendar#view_name=month&view_start=2020-01-13**

CATME survey coming!

but I first need to know which lab section you're in!