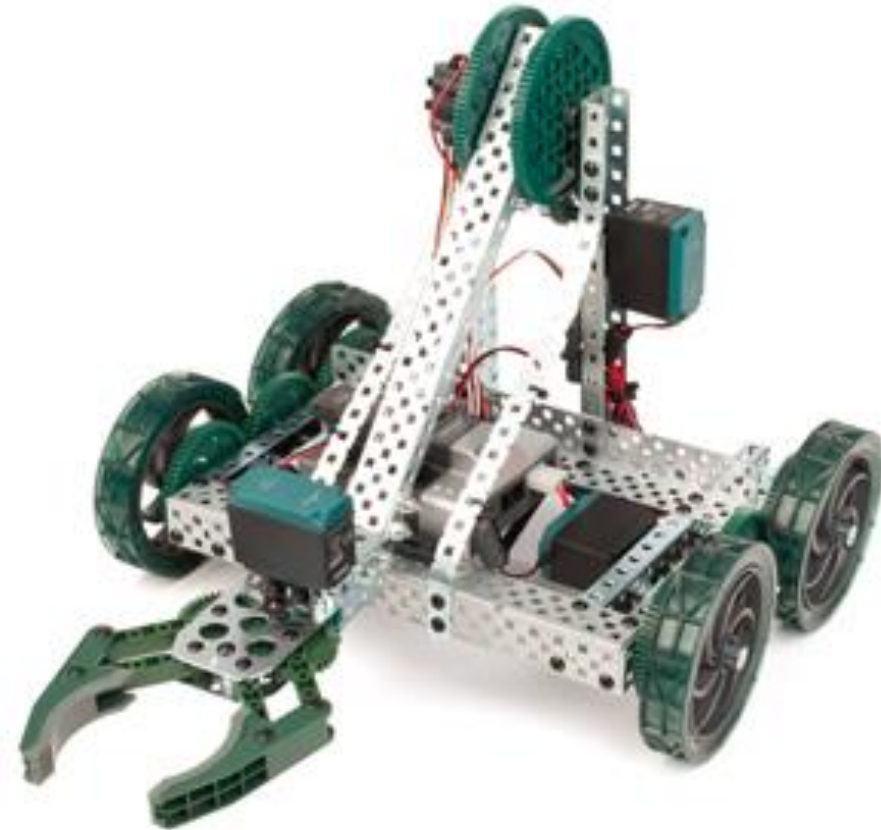


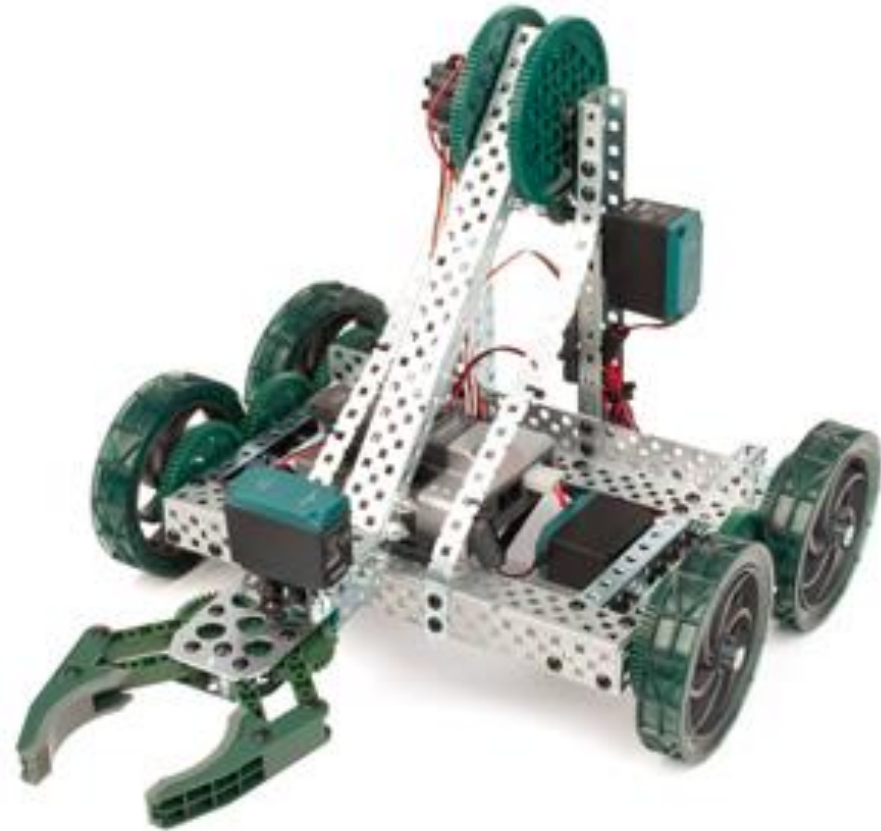
UNIT 2: INTRODUCTION TO ROBOTICS



At the end of this unit, students will be able to:

- Students will **demonstrate knowledge** of the basic components and subsystems of a robot.
- Students will be able to **list examples of robots** found in the real world.
- Students will **understand the fundamental** subsystems and components found in the VEX EDR robots.
- Students will be able to **construct robotic assemblies** using the VEX EDR robots.

Unit 2.1 What is Robotics?



ROBOT

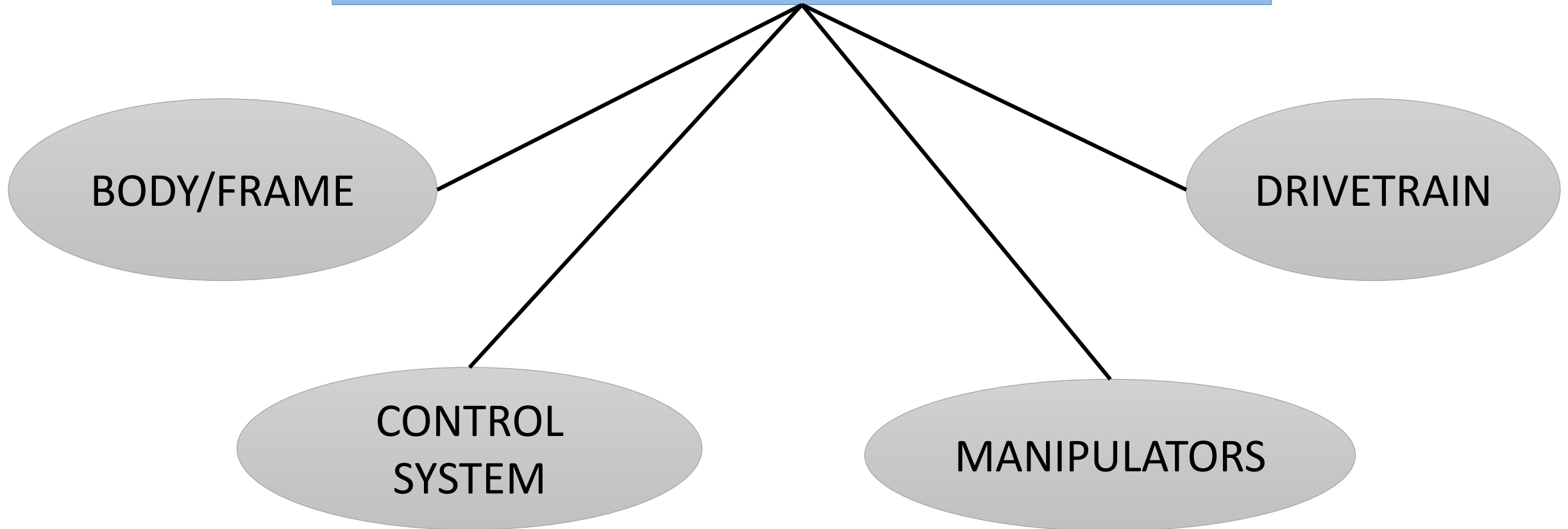
- A programmable mechanical device that can perform tasks and interact with its environment, without the aid of human interaction.

ROBOTICS

- The science and technology behind the design, manufacturing and application of robots.

- The word robot was coined by the Czech playwright Karel Capek in 1921.
- He wrote a play called “Rossum’s Universal Robots” that was about a slave class of manufactured human-like servants and their struggle for freedom.
- The Czech word *robot* loosely means “compulsive servitude”.
- The words robotics was first used by the famous science fiction writer, Isaac Asimov in 1941.

BASIC COMPONENTS OF ROBOTICS

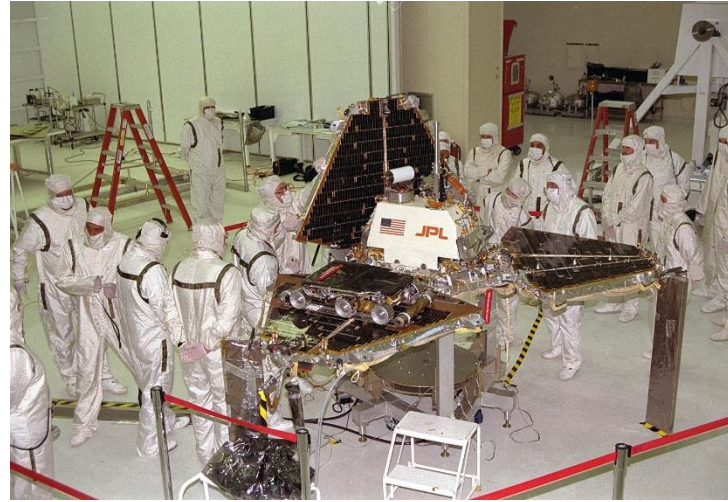


EXAMPLES OF ROBOTS

Industrial Robots



Robots in Research



Robots in Education



THANK YOU

Q&A SESSION