
CHAPTER 1 – FUNDAMENTALS OF ROBOTICS

COMP ENG ELEC 2 – ROBOTICS/MACHINE LEARNING 2

Introduction

In this chapter, robots and robotics is differentiated. The main components of robots are as well discussed along with the laws and principles governing robots and robotics presented in different papers and symposiums. The main purpose of Analog Circuits and its application is further explained. The introduction to creating project proposals were detailed enabling students to develop solid foundation in creating the subject requirement.

Objectives

At the end of the topic, the student should be able to:

- *Discuss the basic principles of robots, robotics and engineering design process*
- *Explain the fundamentals of robotics*
- *Understand analog circuits*
- *Differentiate Analog to Digital circuits*
- *Identify the key principles in creating project proposals*
- *Develop an initial project proposal*

Learning Content

I. What is Robot?

- The word robot was coined by a Czech novelist **Karel Capek** in a 1920 play titled *Rassum's Universal Robots* (RUR)
- In Czech, Robot means worker or servant.
- According to Robot Institute of America, robot is
 - *"Any machine made by one of our members"*
 - *"A robot is a reprogrammable, multifunctional manipulator designed to move material, parts, tools or specialized devices through variable programmed motions for the performance of a variety of tasks."* (1979)
- The traditional definition of a robot is a machine that can sense, think, and act. That means it can:
 - Tell what's happening in its physical environment
 - Analyze that information and make a decision based on its programming
 - Move around, flash lights, sound alarms, or otherwise do something that affects the physical world.
- **A robot is a device meant to help humans accomplish tasks.**

II. What are the main components of a robot?

- Robots come in all shapes and sizes all of which require different parts for construction. These are the three general categories of robotics:

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