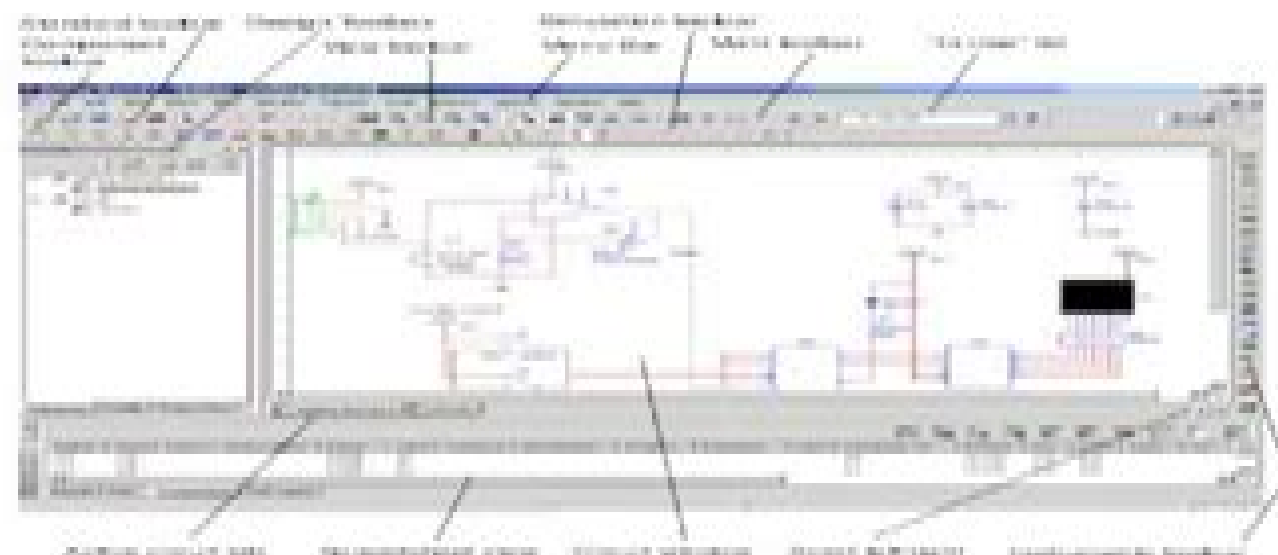


## INTRODUCTION TO MECHATRONICS

Mechatronics is defined as the interdisciplinary field of engineering and design methodology. It deals with the design of products whose function relies on the integration of mechanical, electrical and electronic components connected by a control scheme. Mechatronics is a system-level approach to designing electro-mechanical systems that merges mechanical, electrical, control systems and embedded software design. Mechatronics plays an important role in the design, manufacturing and maintenance of a wide range of engineering products and systems. Mechatronics provides solutions that are efficient and reliable systems.

### Introduction to the Multisim Interface

Multisim is the schematic capture and simulation application of National Instruments Circuit Design Suite, a suite of EDA (Electronic Design Automation) tools that assists you in carrying out the major steps in the circuit design flow. Multisim is designed for schematic entry, simulation, and feeding to downstream steps, such as PCB layout.



Multisim's user interface consists of the following basic elements:

- **Menus** are where you find commands for all functions.
- The **Standard** toolbar contains buttons for commonly-performed functions.
- The **Simulation** toolbar contains buttons for starting, stopping, and other simulation functions.
- The **Instruments** toolbar contains buttons for each instrument.
- The **Component** toolbar contains buttons that let you select components from the Multisim database for placement in your schematic.

# **Mechatronics Lab Manual Diploma**

**Anand Arumugham**



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*Transformation in Education and Artificial Intelligence Application* Daniel Vasić, Emil Brajković, 2025-10-09 This book constitutes the proceedings of the Third International Conference on Digital Transformation in Education and Artificial Intelligence Applications MoStart 2025 held in Mostar Bosnia and Herzegovina during April 23 25 2025 The 19 full papers were presented in this volume were carefully reviewed and selected from 39 submissions They focus on advanced educational technology intelligent systems robotics in education security within Industry 4.0 frameworks the implementation of large language models in personalized learning environments and broader cross disciplinary applications of AI

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