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Introduction

What is Controls Engineering

What Education is Needed

What Does Automation and Controls Look Like

What Companies Hire Controls Engineers?

How Much Does It Pay?

Summary

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The work of a **control**, systems **engineer**, involves more than just designing a **controller**, and tuning it. Over the course of a project, ...

Intro

Concept Formulation

Development

Test Verification

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Intro

AUTOMATIC CONTROL SYSTEM

OPEN LOOP CONTROL SYSTEM

CLOSED LOOP CONTROL SYSTEM

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Introduction

Course Structure

Objectives

Introduction to Control

Control

Control Examples

Cruise Control

Block Diagrams

Control System Design

Modeling the System

Nonlinear Systems

Dynamics

Overview

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Feedback Loop

Open-Loop Mental Model

Open-Loop Perspective

Core Ideas

Mental Models

The Fundamental Attribution Error

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Introduction

Single dynamical system

Feedforward controllers

Planning

Observability

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