Introduction to Electronics Manufacturing

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A brief introduction

- Introduction
- Component types
- Circuit Design Process
- Manufacturing Processes
- Considerations for Integration

Component Types



- Chips (integrated circuits)
- Passives (Resistors, Capacitors, Inductors)
- Discretes (Transistors, Diodes, other)
- Sensors
- Connectors

Circuit Design Process



- Analog vs Digital
- Design Steps
 - Brainstorming and sketching
 - Analysis
 - Simulation
 - Prototyping
 - Testing
 - Optimize and repeat!

Design Tools



- Schematic Capture
- Simulation (analog and digital)
- Physical Layout