Robotics

Learn ”How to make Android Controller Car”

Introduction to Robotics

- Introduction to Robotics
- Types of Robot according to application
- Market exposure robotics
- Introduction to Embedded System
- What is embedded
- Use of Embedded in our life

Introduction to Basic Electronic

- Analog Electronic:
- Basic of Bread Board, Resistor, Capacitor
- Voltage divider circuit
- Testing with multimeter
- Types of Switches
- Digital Electronic:
- Logic gates
- Basic of counters
- Introduction to various general purpose IC
- Power Supplies
- Building a standard voltage supply
- Regulated DC voltage Supply

Sensor, Actuator & Microcontroller

- Sensor and Actuator
- Mechanism used by sensor
- Line sensing, temperature sensor, Distance Measurement
- Motors
- Motor Drivers
- Introduction to microcontroller
- Overview of Microcontroller
- Application & Scope of microcontroller
- Introduction to AVR Architecture
- Familiarization with various addressing Modes of Atmega 16

Embedded C

- Programming Technique (Low level/ High level/ Very High Level)
- Description of various function of Embedded C
- Working on Simulator

Interfacing with Microcontroller

- LED
- Motor Driver IC
- LCD
- IR Sensor
- Advance Sensor
- Buzzer
- Relay
- DTMF IC
- Communication using a mobile personal computer
- Brushing up TTL logic communication
- Communication without developing application (using Hyper Terminal)
- Serial Communication
- GSM Protocol
- ZigBee Protocol
- RF communication
- 10. Mechanical Assembly
- Trouble Shooting Techniques
- 11. Working on Arduino
- Atmega 328P
- Bluetooth
- Wifi
- Android controlled bots

Raspberry PI

- Installation
- Usage
- IoT
- Python in Raspberry PI
- GPIO of Raspberry Pi
- IFTTT

Project: **Android controlled bots**

Thanks

For any queries
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