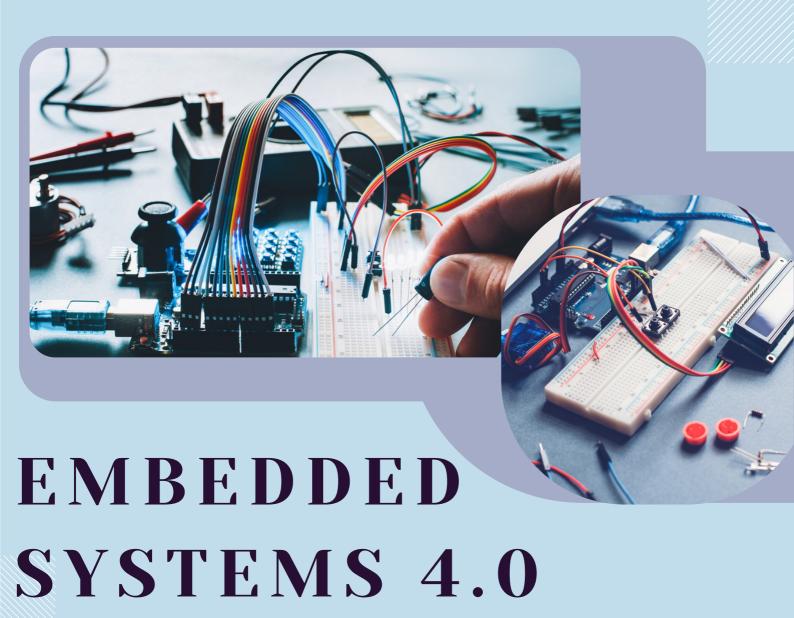


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FROM TRAINING TO JOB AND BEYOND



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BASIC ELECTRICAL & ELECTRONICS

- AC AND DC
- VOLTAGE CURRENT
- POWER
- OHMS LAW
- ACTIVE AND PASSIVE COMPONENTS
- VOLTAGE DIVIDER
- CURRENT DIVIDER
- 555 TIMER
- LOGIC GATES
- SENSORS AND TRANSDUCERS







INTRODUCTION TO EMBEDDED SYSTEMS

- ARCHITECTURES
- COMMUNICATIONS
- BUSES
- SYNCHRONOUS AND ASYNCHRONOUS
- RISC AND CISC
- ENDIANS
- TYPES OF MEMORIES
- APPLICATIONS OF EMBEDDED SYSTEMS









- INTRO TO C PROGRAMMING
- OPERATORS AND EXPRESSIONS
- CONTROL STATEMENTS
- LOOP STATEMENTS
- . FUNCTIONS
- . ARRAYS
- . POINTERS
- STRUCTURE AND UNION









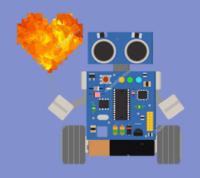


8051 MICROCONTROLLERS

- ARCHITECTURE
- PIN FUNCTIONS
- PROGRAMMING USING KEIL IDE
- UPLOADING FLASH USING USBASP
- INTERFACINGS: LED, SWITCHES, LCD DISPLAY, 7 SEGMENT DISPLAY, STEPPER MOTOR, DC MOTOR
- TIMER
- INTERRUPT

PIC 18F4580

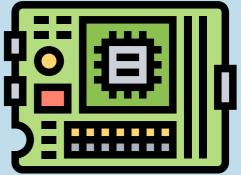
- ARCHITECTURE
- PIN FUNCTIONS
- INTRO TO MPLAB XIDE
- UPLOADING FLASH USING PICKIT 3
- INTERFACINGS: LEDS,SWITCHES,
 7 SEGMENT DISPLAY, LCD DISPLAY, DC MOTOR,
 STEPPER MOTOR.
- ANALOG TO DIGITAL CONVERSION (ADC)
- TIMER
- . INTURRUPT
- . CAPTURE / COMPARE / PWM (CCP MODULES)
- SERIAL COMMUNICATION: UART, I2C, SPI











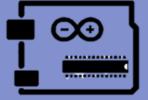


ARDUINO UNO

- FEATURES
- PIN FUNCTIONS
- PROGRAMMING USING ARDUINO IDE



7 SEGMENT DISPLAY, STEPPER MOTOR, SERVO MOTOR



INTERNET OF THINGS (IOT)

- BASICS OF IOT
- INTRODUCTION TO ESP 8266
- PIN FUNCTIONS
- PROGRAMMING USING ARDUINO IDE
- INTERFACINGS: LED, SENSORS, LED DISPLAY, LCD DISPLAY, DC MOTOR, SERVO MOTOR.
- SERIAL COMMUNICATIONS
- HINGSPEAK
- ADAFRUIT IO
- BLYNK









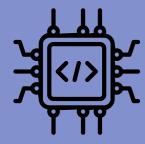


ARM CONTROLLER

- INTRODUCTION TO ARM
- TYPES OF ARM CONTROLLERS
- **FEATURES**
- PIN FUNCTIONS
- INTRODUCTION TO STMCUBEIDE







PYTHON PROGRAMMING

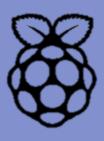
- INTRO TO PYTHON
- PYTHON OPERADORS AND EXPRESSIONS
- **CONTROL STATEMENTS**
- **LOOP STATEMENTS**
- **ARRAYS**
- **TUPLE**
- **FUNCTIONS**
- THONNY IDE
- **IDLE PYTHON**





RASPBERRY PI

- INTRODUCTION TO RASPBERRY PI
- **FEATURES**
- PIN FUCTIONS
- **ACCESSING GPIO PINS**
- DOWNLOADING AND INSTALLING RASPBERRY PI OS
- INTERFACINGS: LED, SENSORS, DC MOTOR, SERVO MOTO STEPPER MOTOR.
- **CAMERA**







PCB DESIGNING (SOFTWARES)

- ALTIUM
- OrCAD
- EAGLE
- PROTEUS
 - •
 - INTRODUCTION TO PCB
 - TYPES OF PCB
 - MATERIALS OF PCB
 - SELECTION OF MATERIALS
 - TYPES OF ELECTRONIC COMPONENTS
 - PACKAGES OF COMPONENTS
 - LAYERS OF PCB
 - THROUGH HOLE AND SMD COMPONENTS
 - . EMI AND EMC
 - . COUPLING
 - . POWER PLANES
 - EARTHING AND GROUNDING
 - IPC STANDARD
 - DIY PCB AND MASS PRODUCTION
 - METHODS OF EMC
 - KEEPOUT REGIONS
 - GERBER FILES
 - PCB TERMINOLOGIES
 - DRC AND ERC
 - PART IDENTIFICATION
 - REQUIREMENTS FOR COMPONENTS
 - DATA SHEET UNDERSTANDING
 - PRIMARY AND SECONDARY IDENTIFICATION







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