

ARUNAACHALAM M

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EXPERIENCE



Position	: Embedded Trainee Engineer
Company	: Mirror Institute For Embedded Technology (MIET) (www.lastbenchindia.com), Chennai
Duration	: 5th March 2024 to till date (8+ months)
Type	: On job Training and assured Placement
Course	: Advance Diploma in Embedded System

PROFESSIONAL SUMMARY

- **8+ Months experience** on Embedded System Product Development and Testing.
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- Have done Projects using **ARDUINO,ATMEL and PIC** controllers
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- Familiar with and have experience working **CAN,SPI,I2C and UART** protocols
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- Have good knowledge and working experience in **C and Embedded C programming**
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- Good communication and analytical skills
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- Basic Knowledge on RTOS concepts
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ACADEMIC PROFILE

- **B.Tech in Electronics and Communication Engineering**
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SRMIST, Chennai May 2024 **9.04/10**

- **Higher secondary** March 2019
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Green Park Int School, Namakkal **76%**

- **Secondary School** March 2017
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Chelammal Matric.Hr.Sec.School, Trichy **97.6%**

KNOWLEDGE PREVIEW

Programming Languages: C, Embedded C

Embedded Software Tools: Keil μ vision 4, MPLAB v8.80 IDE , Proteus, Pickit3

Microcontrollers: Atmel 8051(AT89C51/52), PIC 16F877A/887

Areas of Interest: Microcontrollers, Digital and analog electronics

Protocols: I2C, SPI, UART, CAN

Other tools: Microsoft Office

Operating System: Windows

Interfaces: 16X2 LCD display, 7 segment display, Keypad, LM35, ADC 0808, RTC(DS1307), EEPROM(24C04)

CERTIFICATION

Diploma in Embedded Systems (DES) -Certified by Mirror Institute For Embedded Technology (MIET)

PRACTISE PROJECTS

ATMEL AT89C51

- Automatic water dispenser using ultrasonic sensor and servo motor
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- Led Blinking using Timers
-
- Dc motor speed control using PWM
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- Street light control using IR sensing.
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PIC 16F877A

- Interfacing Lcd display and 7 segment display
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- Interfacing temperature and humidity sensor
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- Dc motor speed control using PWM
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ACADEMIC PROJECTS

MINI PROJECT

TITLE : Temperature and Humidity Monitor using Arduino

TOOLS : Arduino IDE and Proteus 8

DESCRIPTION : Use a DHT11 sensor with Arduino to measure and display temperature and humidity readings on an LCD display.

ROLE : Code development and Hardware design

FINAL PROJECT

TITLE : Bluetooth-controlled Home Automation System

TOOLS : Arduino IDE and Proteus 8

DESCRIPTION : Use an Arduino (with a Bluetooth module like HC-05) to control home appliances (lights, fans) from your smartphone or Bluetooth-enabled device.

ROLE : Code development and Hardware design

PROJECT

TITLE : Home Automation System using 8051 Microcontroller

TOOLS : AT89C51 and Proteus 8

DESCRIPTION : Designed and implemented a home automation system using the 8051 microcontroller, integrating sensors (temperature) and relay modules for controlling home appliances (lights, fans)

ROLE : Code development and Hardware design

ACTIVITIES AND ACHIEVEMENTS

- Certified with Professional English by Great Learning
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- Workshop on Embedded and IOT by Pantech E-learning
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- Workshop on 5G Communication by Pantech E-learning
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- Participated and Organized various Seminars in College
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HOBBIES

Playing Chess and Practicing Yoga

PERSONAL PROFILE

Date of birth : 01.11.2001

Languages : English, Tamil and Hindi

Nationality : Indian

Residence : No-7,Gangai nagar,Edamalaipatti Pudhur, Trichy-620012