PG Program in Embedded Systems for EV Applications

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----------Start----------

Hi, thanks for showing interest in our PG Certification Program in Embedded Systems for EV Applications Program. It was great talking to you. Here are the details regarding the course.

__Duration of the course__
Part time: 12 months
Full time: 6 months

In this program, you will learn the below course

1. Introduction to Hybrid Electric Vehicle using MATLAB and Simulink
2. Embedded Linux on ARM
3. AVR Bare Metal Programming
4. ARM Cortex MCU Programming
5. RTOS on ARM
6. Linux Driver Development
7. Software Verification and Validation and System Testing for Model-Based Development
8. Fundamentals of Embedded Systems
9. Introduction to Battery Technology for Electric Vehicle
10. Device Drivers and Serial Communication Protocols
11. Embedded C Essentials
12. Simulink for Mechanical & Electrical Engineers
13. Software Verification and Validation and System Testing for Hand Code

#Co-Branded Certificate with MathWorks- Students who complete Mathworks training (optional) and clear the assessment test will get the Skill-Lync certificate co-branded with MathWorks.

Projects

1. Modeling of Electric Vehicle Using DC Motor Drive
2. Design of Electric Powertrain
3. Implementation of Complementary Filter Application
4. Implementation of Character device
5. DC Motor Control Using L293 Driver
6. Interfacing HC-SR04 Ultrasonic Sensor with Atmega328p
7. Implement a fully functional Queue in C language using Linked lists.
8. Integrate the given sensors to the Dev Board
9. Developing a full-featured char driver as a loaded module
10. Design and development of a web-based temperature control system using Beagle bone
11. TFT Cluster Speedometer Display
12. Coolant Temperature Meter SWC Development

13. Interfacing a 16*2 LCD with 2 Arduino's using (I2C) Communication Protocol
14. Measuring the Distance of an Object Using Ultrasonic Sensor
15. Mechanical Design of Battery Pack
16. Thermal Modeling of Battery Pack
17. Modeling & testing of battery management system with Simulink
18. Write a Driver for I2C and Use the USB Logic Analyzer to Analyze the I2C Frames
19. Write a CAN Driver for STM32 Controller and Analyze the CAN Data Frames
20. User Interfaces for Working with "Sets"
21. Finite State Machine for Aircraft Landing Gear System
22. Simulation of All-Terrain Vehicle
23. Static Code Review Analysis
24. Dynamic Analysis – White Box Testing

Software

1. Simulink**
2. MATLAB**
3. C Programming
4. Embedded Linux
5. AVR ATmega328
6. Arm Cortex M4 - STM32
7. STM32CubeIDE
8. FreeRTOS
9. Mbed Simulator
10. CAN Protocol
11. LDRA Design Suite
12. SimulIDE
13. Microchip Studio

**Licensed version of MATLAB and Simulink provided for 6 months.

Hardware Table

S.No	ITEM NAME	Buying Option
1	STM32 Nucleo-64 development board with STM32F334R8	https://www.digikey.in/en/products/detail/stmicroelectronics/NUCLEO-F334R8/4835707?s=N4IgTCBcDaIHIFcDGAbApgewAQDEDMeALAEoAclAugL5A
2	USB Logic Analyze 24M 8CH, MCU ARM FPGA DSP Debug Tool	https://www.electronicscomp.com/usb-logic-analyze-24m-8ch-mcu-arm-fpga-dsp-debug-tool?gclid=CjwKCAjw_L6LBhBbEiwA4c46ulYj5o_5pCE8-IlXQj5hzwzXGze0zRneaJa0gi0f8TJYMaK5gKF4QxoCfBQQAvD_BwE
3	Official Arduino	https://www.electronicscomp.com/official-arduino-sensor-kit?search=Arduino%20sensor%20ki

	Sensor Kit	
4	Stepper Motor	https://www.electronicscomp.com/stepper-motor-5v-unipolar-india?search=stepper
5	ULN2003 Stepper Motor Driver	https://www.electronicscomp.com/uln2003-stepper-motor-driver-board
6	Beagle Bone Black (optional for Skill-center course)	https://www.electronicscomp.com/beaglebone-black-rev-c?gclid=CjwKCAiAtouOBhA6EiwA2nLKHxmRbyIsPY-sDb8Zx037h18jF0vz55_K1i3kYIkugLMzC0RYxac4-RoC6NAQAvD_BwE

Demo videos
PG Certification Program in Embedded Systems for EV Applications
https://youtu.be/V2FsQ2J9KPo
Embedded C
https://youtu.be/-bZaqU0qTHY
Fundamentals of Embedded Systems
https://youtu.be/DNY6TlmHsk8
Software Verification and Validation and System Testing for Hand Code
https://youtu.be/5e_egVme2fQ

Simulink for Mechanical & Electrical Engineers
https://youtu.be/E0clpeAR78s
Introduction to Hybrid Electric Vehicle using MATLAB and Simulink
https://youtu.be/r77CR0psncI
Introduction to Hybrid Electric Vehicle using MATLAB and Simulink - Part 2
https://youtu.be/4EvfydX6zHM
Introduction to Battery Technology for Electric Vehicle
https://youtu.be/tpDyT29BunQ
Software Verification and Validation and System Testing for Model-Based Development
https://youtu.be/BE9S8PUE2p4

Description of course content
https://skill-lync.com/electrical-engineering-courses/pg-certification-embedded-systems

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