

Internship in Embedded System



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An iso 9001:2008 Certified Company

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Why Internship?

We are all aware of the fact that getting an Engineering degree from a good college matters a lot, but the degree won't hold much of a value if you are not able to apply the knowledge in the real business world. Internships give students their first exposure to working in an organization and also a flavor of the functional area they are interested in pursuing later in their careers. Completing Internship is deemed necessary these days in most of the Engineering Colleges. Employers give a lot of weightage to the Internship of the students during placement. Having Internship from a good company and with meaningful function knowledge is considered as a big plus point for the Engineering students.

Internship provides a chance to individuals to choose the industry of their choice, develop knowledge on that industry, learn how to work with a team, increase the likelihood of building professional networking contacts, gives them a chance to face real time challenges, they learn how to interact with clients and so on. Many times it has been noticed that if the performance of the intern is very good then there are high chances of getting an offer letter at the end of the internship program.

Softroniics comes up with a Internship opportunity in Embedded system. This program is pegged at giving in depth fundamental knowledge and exposing students to practical working environments of the industry. This is the program for those who have a passion for technology and think that this is the only way to bridge the gap between theory (whatever is taught in the classroom) and practical (what is used in the industry).

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INTERNSHIP STRUCTURE

MODULE 1(1 hour)

To introduce oneself by giving your name and telling the class a little bit about your yourself, your likes and dislikes, your reason for attending the course etc. To discuss expectations from the trainees and the trainer and about rules, regulations, protocol, transparency, etc.

Career path Discussions (30 min)

To identify potential job and career progression opportunities post the course

MODULE 2

Introduction to Embedded Systems (15 hour)

To explain the fundamental concepts relevant to embedded systems from engineering course.

C Programming (35 hours 30 min)

To analyze the embedded system requirements. To design embedded systems using C programming language. To apply their learning to develop a software using C programming language for embedded systems.

C++ (24 hours)

To analyze the embedded system requirements with object orientation to design embedded systems with object orientation. To apply their learning to develop a software using C++ programming language for embedded systems.

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MODULE 3

8051 Microcontroller (20 hours 30 min)

To design an embedded hardware using 8051 microcontrollers. To develop an embedded hardware using 8051 microcontrollers.

ARM (34 hours 45 min)

To design an embedded hardware using ARM series of microcontroller (ARM7/9, ARM Cortex). To develop an embedded hardware using ARM series of microcontroller (ARM7/9, ARM Cortex).

MODULE 4

Linux Internals (18 hours)

To illustrate the working of embedded systems on Linux RTOS. To give an example of Linux to understand the working of RTOS.

Device Drivers (20 hours 15 min)

To illustrate interfacing of hardware devices with embedded software under Linux environment. To design character device driver, block device drivers and network device drivers to develop character device drivers, block device drivers and network device drivers.

RTOS (24 hours 30 min)

To develop embedded systems using RTOS. To identify embedded systems requirements to apply judiciously RTOS concept.

MODULE 5

SDLC (21 hours 30 min)

To explain the formal methodology for embedded software development

Practical LAB sessions (132 hours 15 min)

To apply the practical aspects of the modules covered.

LAB WORK

Project work (30 hours)

To familiarize the participant with real life problem solving scenarios. To apply their knowledge and skills to solve the real-life problems.

Formative Assessment (16 hours)

To assess the candidates understanding of the topics covered at the end of each module.

Summative Assessment (3 hours)

To assess the candidates understanding of the topics covered at the end of program.

Recap (17 hours 30 min)

To summarize the previous day's session and help the participants recollect the concepts covered.

Post Class DISCUSSION (11 hours 15 min)

To summarize the highlight points of the day's session.

Work and Email Etiquette (3 hours)

To share Greeting & Meeting Etiquette, Polite Expressions while talking and basics of email etiquette.

Basic IT Skills-PPT/Excel/Word (15 hours)

To prepare the candidate to use PPT, Word and Excel for business purpose. To assess the PPT, word and excel proficiency developed in the participants.

Interview Preparations

- **100+ Interview Questions**
- **Interview preparation**
- **Group Discussion trials**
- **Resume Writing**
- **Etiquettes in IT industry**

OTHER INSTRUCTIONS

During your internship period as, you will be regularly appraised through oral or written communication by your Team Leader (TL). Intern is not supposed to use mobile phone during the working hours. Also not supposed to take more leaves than permitted. On successful main project completion the candidate may get certificate from the client apart from Softroniics certification. Placement references will be given at the end of four months internship period.

There are ample companies which offer job for internship completed candidates. Based

on your area of interest you can choose from the following kind of companies:

- 1.) Web Industry
- 2.) Start ups
- 3.) MNC Companies
- 4.) IT Sector

Softroniics®

Our Placement partners



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