COIMBATORE INSTITUTE OF TECHNOLOGY

(GOVERNMENT AIDED AUTONOMOUS INSTITUTION)

CIVIL AERODROME POST, COIMBATORE-641014.

PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME	: NEELAKANDAN S
ROLL NUMBER	: 1703029
DEPARTMENT	: ELECTRICAL AND ELECTRONICS ENGINEERING
EMAIL ID	: spraveensmart@gmail.com
CONTACT NUMBER	: 9677955419, 9080784404
COMPANY NAME	: DATA PATTERNS INDIA PVT.Ltd
COMPANY TYPE	: CORE
JOB DESIGNATION	: TESTING ENGINEER
SALARY (CTC)	: Rs. 1,80,000/- annum - 1st year Rs. 2,64,000/- annum - 2nd year Rs. 3,36,000/- annum - 3rd year
INTERN OFFERED ?	: YES
BOND	: 3 YEAR + 5 MONTHS (INTERN)
HAVE YOU PLACED ?	: YES

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 : ONLINE TEST (Aptitude +Technical)
It consists 2 sections.
SECTION 1 (aptitude) – logical reasoning, numerical problems
SECTION 2 (Technical) – Basics of electronics and circuit theory.

Have you cleared the round : YES / NO) - **YES**
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
GENERAL APTITUDE		
CIRCUIT THEORY - PROBLEM SOLVING		
DIC		
LIC		

ROUND 2 : TECHNICAL INTERVIEW
Second round was technical HR, where they asked about myself, Mini-project and Main project.
They've also asked about amplifier and logic gates.
They asked about Analog circuits.

Have you cleared the round : YES
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
PROJECT	TO DRAW THE BLOCK DIAGRAM	
AMPILFIER	TO DESIGN THE NON INVERTING AMPLIFIER AND VOLTAGE FOLLOWER CIRCUIT	
DIC	TO DESIGN THE COMBINATION CIRCUITS USING LOGIC GATES	

ANALOG CIRCUITS	TO DESIGN A AC TO DC CIRCUIT WITH REGULATED DC 5 V OUTPUT	

ROUND 3 :GENERAL HR
The round was about to introduce myself, family background and about Data Patterns

Have you cleared the round : YES

AREAS TO PREPARE :

1.Circuit theory (Kirchoff's voltage and current law , voltage and current divider rule , theorems) for problem solving
2.Linear integrated circuits
3. Digital integrated circuits
4. Basics of Microprocessor and microcontroller
5 .Analog electronics

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

1.Digital Principles &system design(A.P.GODSE)
2.Roy choudry for linear integrated circuits
3. See some youtube videos for circuit solving
4. Refer lab manuals for DIC and LIC

OVERALL EXPERIENCE :

It was quite good and I learnt many things from the interviewer related to core subject

GENERAL TIPS : Be strong in your area of intrest , final year project and basics of electronics

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PLACEMENT AND TRAINING CELL

PLACEMENT YEAR 2020-2021

NAME	:BALAJI G
ROLL NUMBER	:1803202
DEPARTMENT	:EEE
EMAIL ID	:er.balajig@gmail.com
CONTACT NUMBER	:8220236077
COMPANY NAME	:DATA PATTERNS
COMPANY TYPE	:CORE
JOB DESIGNATION	:GET
SALARY (CTC)	:2.16lpa
INTERN OFFERED ?	:YES
BOND	:3 years
HAVE YOU PLACED ?	:YES

*(Please comment this section **in detail** to guide your juniors in bright way)*

COMMENTS ON SELECTION PROCESS :

ROUND 1 : General aptitude and basic technical questions.

Have you cleared the round : YES / NO
Details about Questions on 1st round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 2 :

Have you cleared the round : YES / NO
Details about Questions on 2nd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH

ROUND 3 :

Have a good knowledge in all core subjects, analog, digital and machines

Have you cleared the round : YES / NO
Details about Questions on 3rd round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
Electrical machines	Types of machine, about series motor, application	Types of motors: dc and ac. Speed and torque related with applications
Digital electronics	Flip-flop, memory, microcontroller and processor	All type flip flops, purpose of memory units
Analog electronics	Op amp	Open loop and closed loop Operation.
Circuit theory	Kvl, voltage, current rules.	Some basic circuit resolving either for voltage and current.

ROUND 4 :

General HR Round

Have you cleared the round : YES / NO
Details about Questions on 4th round:

QUESTION DOMAIN	QUESTION	SOLUTION / HOW DID YOU APPROACH
	Intro yourself	Answered with confidence about yourself
	Some general questions.	Just replied immediately without any hesitation.

AREAS TO PREPARE :

Hardware

1. Electronic Notations and Unit

Voltage, Current, Power, Energy, Resistor, Capacitor, Inductor, Battery rating

2. Circuit Theory

Resistor
Solving Series network, Parallel network, Series / Parallel combination, Stress for resistor (Power) calculation, Frequency response, Power dissipation
Capacitor
Impedance, Frequency Vs Impedance, Reactance, Series effect, Parallel effect, Stress for capacitor (Voltage) calculation, Frequency response, Energy at capacitor
Inductor
Impedance, Frequency Vs Impedance, Reactance, Series effect, Parallel effect, Stress for Inductor (Current) calculation, Frequency response, Energy at inductor
Element combination
RC circuit, RLC circuit, LC circuit response funciton / curve
Circuit rule / law
Kirchhoff theory, Ohms law, Norton theory, Thevenin circuit, Maximum power transfer theory, Super position theory
Voltage division
Current division
Power dissipation
Voltage source in series and parallel
Current source in series and parallel
Battery, Parallel and series effect

3. Analog Circuit

Opamp
Opamp basic, Voltage follower, Inverting amplifier, Non-Inverting amplifier, positive loop back, negative loop back, open loop, close loop, summing amplifier, differential amplifier, differentiator, integrator, low pass filter, high pass filter
Transistor
CE, CB, CC, voltage follower, current amplifier, ON/OFF control, V-I curve
Instrumentation amplifier
Usage / benefits of instrumentation amplifier
Diode, Zener Diode, Transient Voltage Suppressor
Leads, Characteristics, Difference between each, V-I Curve, function
FET, MOSFET
Leads, Characteristics, Function
Rectifiers, Type of rectifiers
Filters, Type of filters, Characteristics, Application requirement, Active filter and passive filter

4. Digital Electronics

Logic Gates, Comination of Logic Gates, Truth Table and Function
Flip flops, Type, Truth Table
Multiplexer, DeMultiplexer

Encoder, Decoder
Digital Function theory / rules
Micro Controller basics
Micro Processor basics
Memory types, Memory addressing and interface details
Communication interfaces – UART (RS232, RS422), SPI, I2C

5. Electrical

Motor, Type of Motor, Connection diagram, Application requirement
Transformer, Type of transformer, Connection diagram, Application requirement
Law – Magnetic pickup, Electromagnetic principle
DC, AC characteritics, Power factor
Star, Delta connections

Software

C Programming language
Numbering system
Data types, Storage specifiers, operators
Arrays, Unions & structures, functions, pointers
Debugging and Optimization of C programs
Data Structures
Algorithms and abstract data types
Linked lists –types
Implementation and applications
Stacks, Queues – Implementation and applications
OOPS Concepts
C++ Programming
MicroController & Microprocessor
Assemblers, compiliers and linkers

SITES / BOOKS YOU SUGGEST FOR PREPARATION FOR THE PROCESS :

OVERALL EXPERIENCE :

Very easy to clear this company. The worst part is that we have to be in campus (company) for last 2 rounds.

GENERAL TIPS : N/A