BALAN P M



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## OBJECTIVE

To get elevated in the field assigned to me by exploring my skill sets, and work to the best of my ability for the benefit of the organization. Make best use of my acquired skills with an opportunity to improve the same, and contribute the growth of the firm in all the way i can.

## WORK EXPERIENCE DETAILS

Organization: **WINGS TECHNOCRATS, SALEM**

Designation: **MATLAB/SIMULINK DEVELOPER**

Total Experience: AUG 2021 – PRESENT (Two years)

Current CTC: 2.16 Lakhs per Annum

Notice Period: 30 DAYS

## ROLES AND RESPONSIBLITIES

* Involved in analysis, design, and development and implementing new models using Matlab.
* Possess familiarity with M- script programming language.
* Involved in requirement gathering for optimization.
* Involved designing of control system for different modes of operation.
* Expertise in the controller such as Fuzzy logic controller (FLC), Neuro fuzzy (ANFIS), PID control.
* Used toolboxes such as Simulink, Simpowersystem and Stateflow.
* Ability to design, code, test, debug, modify, document and maintain programs, and deliver quality product within deadline.
* Good in use MATLAB to solve numerical problems with matrices.

## SKILLS

* Ability to work in a “multi-tasking” environment.
* Problem solving ability.
* Completing tasks on time and being punctual.

## PROJECTS SUMMERY

**PROJECT 1**

Energy management of grid-connected PV system with battery-super capacitor based hybrid energy storage system.

**Platform** : MATLAB/ Simulink

**Description** : This work has used for grid connected application, i.e) changing irradiation in the solar PV causes dynamic output voltage which has compensated using hybrid energy storage system (Battery & Super capacitor). This project is carried out using matlab application.

**Duration** : 2 Months

# PROJECT 2

Adaptive switching method for Adaptive Cruise Control

**Platform** : MATLAB/ Simulink

**Description** : We present an Adaptive Cruise Control (ACC) architecture which is focused on solving repetitive switching issues between two modes of ACC, speed control and distance control. A cascaded controller structure has been used. First controller (upper) includes two modes: a speed controller (PI) and a distance controller (time-gap). Outputs of these controllers are acceleration reference signals. The second controller (lower) is responsible of providing the desired acceleration by controlling throttle

**Duration** : 3 Months

# PROJECT 3

Modeling and Control of Electric Car Powertrain

**Platform** : MATLAB/ Simulink

**Description** : In this paper, the results of our project built in SIMULINK Model of an Electric Car’s Drive system. The main objective of this paper was to determine flow of power during the motoring & regeneration conditions in its powertrain. In this simulation, a BLDC motor, basic motor controller, PI controller and standard model of battery is modeled. This results are used to analyses the Powertrain’s flow and its efficiency for predefined Speed and Torque load conditions.

**Duration** : 3 Months

## TECHNICAL PROFICIENCY

* **PROGRAMMING LANGUAGES** : BASIC OF C,C++
* **TECHNICAL PACKAGES**  : MATLAB Simulink and STATEFLOW

## TECHNICAL ACHIEVEMENT

* The Successfully Conducted National Level Technical Symposium “**ELECTROCALIFA 2K16**” In My College.
* I Had Participated in One Day Workshop On **“SWAMPACC”** At Vellore Institute Of Technology (VIT), Vellore.

## CERTIFICATION

* Obtaining certificate of “**MATLAB ONRAMP**” from MATHWORK COURSE.

## AACADEMIC QUALIFICATION

# B.E. in Electrical and Electronics Engineering,

# COLLEGE : UNIVERSITY COLLEGE OF ENGG, ARIYALUR.

# YEAR OF PASSING : 2013-2017

# CGPA : 6.3

# HSC from State Board Public Examination

# INSTITUTE : MARUTHI HIGHER SECONDARY SCHOOL, MANIVILUNTHAN

# YEAR OF PASSING : 2011-2013

# PERCENTAGE : 90.91

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# Secondary School Leaving Certificate (SSLC)

# INSTITUTE : MARUTHI HIGHER SECONDARY SCHOOL, MANIVILUNTHAN

# YEAR OF PASSING : 2010-2011

# PERCENTAGE : 90.6

## PERSONAL DETAILS

NAME : BALAN P M

FATHER’S NAME : MANICKAM M

DOB : 24-08-1996

SEX : MALE

NATIONALITY : HINDU

LANGUAGE : TAMIL, ENGLISH

## DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and

Belief.

Date:

Place: Chennai **(BALAN P M)**