



**High-Performance Approximation and Accurate  
Multipliers for Hardware Accelerators Based on FPGA**

**A PROJECT REPORT**

*Submitted by*

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**MUNIYAPPAN.P**

**MUTHUSURYA.R**

**PRANAV SRIRAM.V**

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DINDIGUL 624 002**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**MAY 2023**

## BONAFIDE CERTIFICATE

Certified that this project report “High-Performance Approximation and Accurate Multipliers for Hardware Accelerators Based on FPGA” is the bonafide work of “MARUTHAMALAIYYANRAJA.A (922119106055), MUNIYAPPAN.P (922119106058), MUTHU SURYA.R (922119106061) and PRANAV SRIRAM.V (922119106073)” who carried out the project work under my supervision.

  
SIGNATURE OF HOD

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INTERNAL EXAMINER

  
EXTERNAL EXAMINER

Date: 28-03-2023

Tarcin Confidential  
Ref:TR/2022-2023/INT-EX/1000  
0018

## Reg: Internship Offer

Dear A. Maruthamalaiayyanraja,

On behalf of Tarcin Robotics LLP, I am pleased to extend to you this offer of internship position with us, you will be reporting to Mr. Arif Mohamed Khan during entire program. If you accept this offer, you will begin your internship with the Company on 28<sup>th</sup> March 2023 and will be expected to work minimum 45 hours per week.

Your internship is expected to start on 28.03.2023 and end on 01.06.2023. We will also extend your Internship period based on Behaviour, Interest, Contribution and Wellbeing. However, your internship with the Company is "at-will," which means that either you or the Company may terminate your internship at any time, with or without cause and with or without notice.

During your internship, you may have access to secrets and confidential business information belonging to the Company. By accepting this offer of Internship, you acknowledge that you must keep all of this information strictly confidential, and refrain from using it for your own purposes or from disclosing it to anyone outside the Company.

**Terms & Conditions:** A.Maruthamalaiayyanraja agree that, at the time of leaving the Internship or on the cessation of my association with the Company, I will deliver to the Company (and will not keep in my possession, recreate or deliver to anyone else) any and all Confidential Information, Proprietary Information or Inventions or reproductions of any aforementioned items developed by me pursuant to my Internship or association with the Company or otherwise belonging to the Company

By accepting this, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and employees, including our policies prohibiting discrimination and harassment.

I hope that your association with the Company will be successful and rewarding. Please indicate your acceptance of this offer by signing below and returning it to us either through postal or email. If you have any questions, please contact do not hesitate to contact me.

I accept Internship with the Tarcin Robotics LLP on the terms and conditions set out in this letter.

Name

Signature

Date