

# Sai Nived Chandanam

Richardson, TX • [scx210186@utdallas.edu](mailto:scx210186@utdallas.edu)  
945-444-1769 • Work Authorization: F-1 VISA  
[GitHub.com/Nived151](https://github.com/Nived151) • [Linkedin.com/in/sai-nived](https://www.linkedin.com/in/sai-nived)

## **EDUCATION**

**THE UNIVERSITY OF TEXAS AT DALLAS**, Richardson, Texas  
Master of Science in Computer Engineering

Expected Dec 2024

**SRM UNIVERSITY**, AP, India  
Bachelor of Technology in Electronics & Communication Engineering

April 2022

**GPA 8.6/10**

## **COMPUTER SKILLS**

Languages : Python, C, HTML, CSS, VHDL, Latex  
Operating Systems : Windows, Linux  
Tools : Xilinx, EDA, Cadence Virtuoso, Blender, Premiere Pro

## **ACADEMIC PROJECTS**

### **Image Enhancement Using VHDL**

**Nov /2020**

The project basically deals with image enhancement techniques. The enhancement operations are done using VHDL. The main theme is to enhance image using Threshold Operation, Invert Operation, Brightness Operation.

### **Design and Implementation of SPI Protocol:**

**May /2021**

O Design and development of SPI by using the verilog code and creating the Master and Slave. The Finite StateMachines (FSM) and the state diagrams of both Master and Slave are used for verification purposes. From the RTL synthesis the schematic diagram and the synthesis results are covered.

### **HDR Image Processing:**

**Nov /2021**

The project involves alignment and merging of 30 burst RAW images into a single HDR image. Later various post-processing are applied to the image which includes tone mapping, lens shading correction, white balancing etc. Better noise reduction and high dynamic range is observed.

### **True Random Number Generator:**

**May /2022**

TRNG's are used in cryptography and simulations for conditions in background noise that impact the system. For a PUF it's very unlikely to make another device alike due to various intrinsic properties during the manufacturing process. PUF's have various applications which include low-cost authentication, secure key generation.

## **WORK EXPERIENCE**

**Intern**, Electronic Corporation of India Ltd, Hyd, India.  
Design and Implementation of Arithmetic Logic Unit using Xilinx tools

Jan 2021- Mar 2021

## **ACTIVITIES**

**Undergraduate Program Research Skills by University of California at Irving**, Member  
**Photography Society**, Member

Mar 2021 - Sept 2021  
Aug 2018 - May 2022