Tallavalasa Venkatesh

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PROFILE

- Being an Electronics graduate, I am enthusiastic about electronics in every new technology. To secure a position as an electronics engineer where I can utilize my knowledge, skills, and experience to contribute to the growth of the organization as well I like to see my career where I would get exposure to new upcomingtechnologies.

EDUCATION

- **Vellore Institute of Technology** — Chennai, India
  Master of Technology - Embedded Systems; GPA: 7.69 till third semester — *Aug 2021 - June 2023*
- **SRM Institute of Science and Technology** — Chennai, India
  B.Tech - Electronics and Communication Engineering; GPA: 6.078 — *July 2014 - May 2019*
- **Sri Chaitanya Junior College** — Visakhapatnam, Andhra Pradesh, India
  Higher Secondary Certificate; Percentage:69.9 — *May 2014*
- **Bhashyam Public School** — Srikakulam, Andhra Pradesh India
  Secondary School Certificate; GPA: 7.8 — *May 2012*

SKILLS SUMMARY

- **Languages**: C, Verilog, Embedded C, Tcl scripting
- **Platforms**: Linux, Windows
- **Soft Skills**: Leadership, Adaptability, Team work, Self-motivation, Time Management
- **Skills**:
  - Excellent knowledge of digital circuit design.
  - Proficient in Verilog.
  - Strong knowledge of FPGA and ASIC design flow.
  - Good understanding of CMOS and MOS device physics.

INTERNSHIP

- **APEX Semiconductor** – Student Intern (Internship) — Bangalore, India
  Sept 2022-Present
  - Worked on candence EDA tools to do synthesis and placement.
  - Worked on seimens tessent EDA tools to DFT
  - Understanding of different concepts in DFT such as ATPG, IJTAG, LBIST, MBIST, Scan Compression.

PROJECTS

- **Real time Over-The-Air-Programming (OTAP) Implementation for WSN and Analysis using SENSEnuts IoT Platform**:

  In this project, we implemented Over The Air Programming (OTAP) based WSN test bed implementationusing SENSEnuts embedded IOT platform in LINUX to reprogram sensor motes wirelessly. (March 2022 - June 2022)
- **Deep Learning-based Hologram Reconstruction and Super-resolution**:
  Performed using neural networks variationalauto encoder algorithm which helps us to get the best resolution for phase interferometric samples. (Sept 2021 - Dec 2021)
- **Real-Time Object Segmentation and Classification from frames in Surveillance video**:
  The proposed detectionmethod is to classify and analyze the objects or persons through blob analysis in the deep learning program Caffe model using background subtractions with a robust efficiency. (Jan 2018 - March 2018)

ACHIEVEMENTS

- Best Paper in 21st National Conference on Science, Engineering and Technology held at VIT Chennai (01/2022)
  - **PAPER NAME:**: Deep Learning-based Hologram Reconstruction and Super-resolution

VOLUNTEER EXPERIENCE

- Committee Head for publicity domain under AARUUSH'16, a national level techno-management fest of SRM IST. 2016
- Committee Member for maintenance domain under MILAN'15, National level cultural fest of SRM IST. 2015

HOBBIES

- Cricket
- Dance
- Swimming