

github.com/KDVSS

in linkedin.com/in/dhanavenkatasivasai/

SKILLS

Programming Languages

• C/C++, Bash Scripting.

Testing & Development Tools

 Unit Testing, GitHub, Jenkins, VSCode, Eclipse, EasyEDA (PCB).

Software & Platforms:

- Linux, TensorFlow (AI/ML), MATLAB, RTOS, Arduino.
- Experience in Software Integration & Verification.

Project Planning & Coordination

- · Agile (Scrum/Kanban), Jira.
- Cross-functional Team Collaboration.
- Active-listening, Knowledge Transfer.
- Problem-solving, Explaining complex topics in simple terms.

EDUCATION

Mid Sweden University, Sweden. Aug 2022 – Oct 2024

Master's in Electrical Engineering

Jawaharlal Nehru Tech. Univ., India. Aug 2017 – Jun 2019 Master of Business Administration

Pragati Engg. College, India.

Aug 2011 – Jun 2015
Bachelor's in Electronics and
Communication Engineering

LANGUAGES

English Swedish



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Stockholm, Sweden

PROFESSIONAL SUMMARY

Curious and results-driven software developer with a strong foundation in embedded systems, hardware-software integration, and end-to-end verification. Experienced in C/C++ development, adept at testing, debugging and refining embedded applications to optimize performance and efficiency. Familiar with 5G ORAN, Cloud RAN, and real-time system optimization. Committed to continuous improvement, refining processes, and driving efficiency. Recently earned a Master's degree in Electrical Engineering with a specialization in Embedded Systems. Now I am seeking opportunities to apply and expand my expertise in real-world applications.

EXPERIENCE

Software Engineer Intern - 5G OpenRAN & IoT | Firecell, Sundsvall, Sweden Jun 2023 – Sep 2023

- Contributed to developing an open-source 5G OpenRAN project by implementing enhancements in system performance and network configuration, utilizing Git for version control to manage collaborative code changes.
- Developed and optimized low-level embedded Linux-based software for real-time video data processing on the Raspberry Pi4 with the help of 5G, utilizing C/C++ and bash scripting to improve system performance by 20%.

Technical Project Consultant | Kinich IT Labs, Hyderabad, India

Sept 2021 – Jul 2022

- Collaborated with cross-functional teams to gather requirements and define project scope and objectives, ensuring alignment with client needs and technical feasibility.
- Supported the scrum process by contributing to sprint planning and stand-up discussions.

Embedded Developer | Spring Comfort (Mattress Manufacturer), Samarlakota, India Jan 2016 – Mar 2017

 Worked on device integration by developing basic device drivers and interfacing with various hardware components, including sensors, actuators, and motor controllers. This involved utilizing hardware interfaces like I2C and SPI.

MASTER'S PORJECT - at Mid Sweden University

Thesis - Adaptive Energy Management for BLE Nodes Using Indoor Light Harvesting | C/C++, MATLAB, RTOS

- Designed and implemented a Bluetooth Low Energy (BLE) sensor node powered by indoor light harvesting, utilizing the EFR32BG22 silicon chip with an innovative energy harvesting system and supercapacitor storage.
- Integrated sensor drivers and optimized device performance for IoT applications.
- Enhanced energy efficiency in lower energy modes through real-time data analysis using RTOS.
- Acquired expertise in continuous integration and testing processes for validating energy efficient operations, including troubleshooting issues related to real-time data analysis

AI/ML-Driven Damage Detection in Concrete Using Acoustic Emissions

| TensorFlow, Arduino Nano, Python

 Integrated machine learning model into embedded systems, from training to deployment on a MCU platform.

Metrology Station associated with FPGA based on System-On-Chip

VHDL, Petalinux, Zyngberry Platform, Vivado

· Implemented a system capable of monitoring sensor data using the web interface.

PCB Design Work @

| EasyEDA Software, PCB

- Translated 2D schematics into 3D PCB layouts, ensuring correct connections and no electrical or physical conflicts.
- Followed design rules for manufacturability, reliability, and specification compliance.