

ANJALI MURALI

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EDUCATION

M.S. Computer Engineering

Expected May 2025

Colorado State University, Fort Collins, CO, USA

- Introduction to Artificial Intelligence (CS440)
- Embedded Systems and Machine Learning (ECE528)

B. Tech Electronics & Biomedical Engineering

August 2015 - July 2019

Govt. Model Engineering College, Cochin, India

8.09/10 GPA

TECHNICAL SKILLS

Programming Languages: Python, C/C++, MATLAB

Deep Learning Frameworks: Tensorflow, Keras

Software tools: Eclipse, Keil, STM32 ST-LINK Utility, SEGGER, PyCharm, Google Colab

Communication Protocols: I2C, UART, SPI, DALI, BLE

Operating System: Windows, Linux

Server Tools: GIT, Redmine, JIRA

PROFESSIONAL EXPERIENCE

WiSilica, Cochin, India: Embedded Software Engineer

August 2019 - February 2023

- Designed, developed and validated embedded software blocks within WiSilica IOT device platform.
- Collaborated with core engineering teams on system-level investigation, issue tracking and resolution.
- Participated in the definition of both functional and non-functional requirements of the system and translated those into software in line with project vision.
- Reduced development time and bugs in release cycles by refactoring parts of code base and tools.
- Created portable code for bare-metal and RTOS based solutions across multiple MCUs using embedded C.
- Revamped device production support scripts and test firmware to reduce production process time by 50%.

ubio Biotechnology Pvt Ltd, Cochin, India: Project Intern

June 2018 - July 2018

- Assisted in developing a prototype of a fully automated portable low cost fluorescent reader for rapid test of Dengue disease.
- Built a GUI enabling patient detail entry for the patient management system using python tkinter, and added functionality allowing sample cartridges to be moved through the analysis equipment using stepper motors, improving usability.

RELEVANT PROJECTS

Connected lighting control system

WiSilica

- Worked on a proprietary BLE wireless network for control of RGB, CCT based smart lighting devices.
- Enhanced existing features and developed new firmware solutions that enabled the launch of new connected lighting products, functionality and services.
- Ported proprietary BLE mesh to nRF5 SDK FreeRTOS based solution.
- Evaluated and integrated new technologies to WiSilica lighting control system.
- Reduced time taken for device OTA updates by 90% through scheme modifications that improved throughput.

Real time location system for indoor tracking

WiSilica

- Worked on a BLE RSSI based indoor tracking and alerting system for efficient asset utilization and enhanced safety.
- Performed device bring up and power optimization for tag, listener.
- Developed tag to listener to gateway BLE messaging protocol.
- Created a linux based tag simulator application for performance evaluations which resulted in easier development and test setups.

VOLUNTEER WORK

Make a Difference: Academic Support Volunteer

July 2019 - June 2021

- Provided academic support in Chemistry, Physics, and Mathematics to high school (Grade 11 & Grade 12) students.