

# C A Anusha

Software engineer with expertise in developing cutting-edge solutions. Recognized for delivering impactful applications that enhance user experiences. Committed to continuous learning and making a positive impact through technology.

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## EXPERIENCE

### SR. SOFTWARE ENGINEER / Lam Research, Bengaluru

June 2021 – Present

### EMBEDDED ENGINEER II / Honeywell, Bengaluru

Oct 2019 – June 2021

### EMBEDDED ENGINEER I / Honeywell, Bengaluru

Jul 2017 – Oct 2019

## PROJECTS

### DESIGNED HARDWARE FINE TUNING

- Leveraged advanced techniques and methodologies to implement Hardware Fine Tuning, **enhancing the efficiency and effectiveness** of various hardware components.
- Collaborated closely with cross-functional teams** including engineers, designers, and domain experts to **ensure seamless integration** of the Hardware Fine Tuning algorithm across different devices.
- Developed Hardware Fine Tuning algorithm that **extended device coverage to 76%**.

### SPINDLE BATTERY IMPLEMENTATION

- Designed and implemented an intuitive User Interface (UI) to visually display the **real-time spindle battery status for each axis**, enhancing user experience and providing crucial operational insights.
- Revamped the Spindle Messaging Mechanism to optimize command transmission - **achieved reduced memory consumption and eliminated conflicts that arose** from concurrent sending and receiving of multiple commands, leading to smoother and more efficient communication.

### DESIGNED A REMOTE IO COMMUNICATION PROTOCOL

- Pioneered the creation of the **proprietary Honeywell protocol - CDAIO**, a high-priority transfer protocol. This innovation **expedited communication** between a process controller and a remote IO module, significantly **boosting data exchange efficiency**.
- Innovated an **event handling mechanism, optimizing the scheduling of responses** within the CDAIO protocol. This enhancement led to smoother communication flows and more accurate data delivery.
- Elevated the performance of the CDAIO protocol, achieving an **impressive 50ms response rate**.

### LEAK DETECTION ON MASS FLOW CONTROLLER

- Devised and executed a novel approach to facilitate Leak Detection for individual/multiple Mass Flow Controllers (MFCs), **bolstering operational reliability by swiftly identifying potential leaks**.
- Spearheaded the development of technique to detect leaks which markedly **reduced the risk of operational disruptions**. Notably **enhanced leak detection accuracy by 67%**.

## AWARDS & RECOGNITION

**ROOKIE OF THE QUARTER** (2017)

**GO BEYOND AWARD** (2018)

**GO BEYOND AWARD** (2019)

**SIX SIGMA GREEN BELT CERTIFIED** (2018)

**BE COMMITTED** (2020)

**First in Honeywell Hackathon Challenge** (2018)

**BEST HACKATHON PROJECT** (2021)

**Third in Intel® oneAPI HACKATHON** (2023)

**Honorary Mentions in NAMMA YATRI HACKATHON** (2023)

**Intel oneAPI Innovator** (2023)

## EDUCATION

### BACHELOR OF ENGINEERING

Major: Computer Science

Aug 2013 – Jun 2017

Aggregate: 75.4%

GSSSIETW, Mysuru

## SKILLS

### PROGRAMMING LANGUAGE

Java, C/C++, PYTHON

Flutter, Dart, Android

HTML, XML

### RTOS

QNX, Linux

INTEGRITY

PSOS

### PROTOCOLS

CAN

CDA, CDAIO

BOOTP

## PROJECT MANAGEMENT

### VERSION CONTROL

SVN

Microsoft GitHub

Rational ClearCase

### TOOLS

Eclipse, MS Visual Studio, VSCode,

Android Studio, Anaconda, PyCharm,

Jupyter Notebook

Firebase, Netbeans, scikit-learn,

oneAPI

Wireshark

WINSOCK, Putty, OBD

Phabricator

### OTHERS

Jenkins, JIRA, Confluence

Wiki

## KEY STRENGTHS

Deliberative

Strategic

Analytical

Command

Maximizer

Object Oriented Programming

Linux Specialist

## INTERESTS

Participating in Hackathons

Protocol Design

Embedded Platform Design

Customer Centric Product Design